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WIND TUNNEL INVESTIGATION OF AERODYNAMIC CHARACTERISTICS
OF SCALE MODELS OF THREE RECTANGULAR SHAPED CARGO CONTAINERS

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WIND TUNNEL INVESTIGATION OF AERODYNAMIC
CHARACTERISTICS OF SCALE MODELS OF
THREE RECTANGULAR SHAPED CARGO CONTAINERS

by

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SUMMARY

Wind tunnel tests were conducted on scale models of three rectangular shaped cargo containers to determine the aerodynamic characteristics of these typical externally-suspended helicopter cargo configurations. Tests were made over a large range of pitch and yaw attitudes at a nominal Reynolds number per unit length of 1.8×10^6 . This report presents the aerodynamic data obtained from the tests.

INTRODUCTION

Operational requirements of heavy lift helicopters require the transportation of large cargo items at moderately high speeds. The aerodynamic characteristics of such externally-suspended cargo can adversely affect the stability of the helicopter-sling-cargo system. A lack of experimental data on typical large cargo items seriously hinders theoretical predictions of the effects of such configurations on the performance and dynamics of the complete system.

Wind tunnel tests were made on models of several typical large cargo containers in the Army Air Mobility Research and Development Laboratory 7X10 Foot Wind Tunnel. The purpose of this report is to present the aerodynamic data obtained from tests on the scale models of three rectangular shaped cargo containers.

NOTATION

b span
c chord
CD drag coefficient, D/qS
CL lift coefficient, L/qS
CPM pitching moment coefficient, PM/qSc

CRM rolling moment coefficient, RM/qSb
 CY side force coefficient, Y/qS
 CYM yawing moment coefficient, YM/qSb
 D drag force, positive direction is downstream
 L lift force, positive direction is upward
 PM pitching moment, positive direction raises nose
 q dynamic pressure
 RM rolling moment, positive direction is clockwise looking forward
 Y side force, positive direction is to the right
 YM yawing moment, positive direction rotates nose to the right
 θ pitch angle, positive nose up
 ψ yaw angle, positive nose right

DESCRIPTION OF MODELS

Three cargo containers representative of those currently in wide use throughout the military transport system were selected for this wind tunnel investigation. Cargo containers designated Nos. 1 and 2 are geometrically similar, varying only in length. Cargo container designated No. 3 is cubic in shape and different in external details. Models of these three typical rectangular cargo containers were sized to maximize test Reynolds number over large pitch and yaw angle ranges; therefore, each container was constructed to a different scale. Container sizes and model scales are as follows:

Cargo Container No.	Overall Dimensions	Model Scale
1	2.44X2.44X6.10 m (8X8X20 ft)	1/6.62
2	2.44X2.44X12.19 m (8X8X40 ft)	1/9.60
3	2.44X2.44X2.44 m (8X8X8 ft)	1/5.00

Model top, bottom, front, and sides were constructed geometrically similar to the full-scale containers; no attempt was made to simulate container details on the rear end. Photographs of each model showing the outer surface geometry are presented in Figures 1, 2, and 3; photographs showing the models mounted in the tunnel are presented in Figures 4, 5, and 6. An opening in the bottom of each model allowed for pitch angular travel clearance with the mounting strut and pitch link arm. During the tests to evaluate model/strut interference tares, a section duplicating the bottom geometry was attached to the top of each model and the top opening uncovered. A dummy strut was supported from the wind tunnel root structure to provide an image of the support strut. A photograph of cargo container model No. 3 mounted in the tunnel during the model/strut interference tests is shown in Figure 7.

TESTS AND PROCEDURES

The cargo container models were mounted on a single strut above the turntable in the 7X10 Foot Wind Tunnel as shown in Figures

4, 5, and 6. The geometric center, also the pivot point, of each model was located directly over the turntable centerline and 6.4 cm (2.5 inches) below the horizontal centerline of the tunnel. Pitch attitude was varied by the pitching mechanism of the strut support system; yaw attitude was varied using the tunnel turntable. Aerodynamic loads were measured using the tunnel scale balance system.

The tests were conducted at a nominal tunnel dynamic pressure of 4788 n/m^2 (100 psf) with the exception of one test on container model No. 3 at 1197 n/m^2 (25 psf); corresponding test Reynolds numbers based on a unit length were 1.8×10^6 and 0.9×10^6 . Runs were made varying angle of yaw at constant angles of pitch and varying angle of pitch at constant angles of yaw. Yaw angles ranged from -50° to 95° and pitch angles ranged from -5° to 45° on container models No. 1 and 2. For the tests on container model No. 3, yaw angles ranged from 0° to 95° and pitch angles ranged from -5° to 20° .

Model/strut interference tares were determined from tests made on each model with the top altered by a section attached to simulate bottom geometry. Runs were made with and without the image strut system and the difference in the aerodynamic loads taken as the interference correction. In general, these runs were made varying angle of yaw at constant angles of pitch. Where pitch attitude was restricted due to contact of the dummy pitch link with the model, the dummy pitch link was removed. These runs, on container model Nos. 1 and 2, were made varying angle of pitch at constant angles of yaw.

PRESENTATION OF DATA

The results of the tests on the container models are presented in tabular form; tables and model test attitudes are indexed in Table I.

Container model aerodynamic data, corrected for support strut aerodynamic loads, are presented as full scale container aerodynamic coefficients; these coefficients are based on unity as the values for chord, span, and area to facilitate, upon multiplication by the dynamic pressure, a direct conversion to the aerodynamic loads. The full scale container aerodynamic coefficients presented in the tables were obtained by multiplying the model force coefficients by the scale factor squared and model moment coefficients by scale factor cubed. The appropriate constants are listed below.

Cargo Container No.	Force Data (scale factor) ²	Moment Data (scale factor) ³
1	43.824	290.12
2	92.160	884.74
3	25.000	125.00

Forces and moments are resolved with respect to wind axes; moments are referenced to container geometric center.

As stated, cargo container aerodynamic coefficients have been corrected for the support strut aerodynamic loads. However, these data have not been corrected for model/strut interference loads. Due to the

nature of the configurations and ensuing flow, the model/strut interference tares (particularly the moments) were erratic, frequently gross, and open to the individual's interpretation. Although a large number of interference tare data points were obtained, complete coverage was not feasible and data extrapolations are required for some regions. Consequently, the strut interference tare increments, in consistent full-scale coefficient form, are presented separately in Tables V, VI, and VII. Basic data (Tables II, III, and IV) can be corrected for the strut interference effect by subtracting the appropriate tare increment (Tables V, VI, and VII). Selected data -- yaw sweeps at pitch angles of 0° and 8° -- for each container have been corrected for the interference effect. The corrected data are tabulated in Tables VIII, IX, and X, and the data plotted, corrected and uncorrected, in Figures 8, 9, and 10.

For an indication of the aerodynamic effect of each cargo container's outer surface construction details, data from smooth-sided, rectangular boxes having the same overall dimensions of the cargo container models are presented in the Appendix.

TABLE I -- INDEX TO DATA TABLES

TABLE	TITLE	YAW ANGLE, DEG	PITCH ANGLE, DEG
II-1	Cargo Container No. 1 - Yaw Angle Sweeps	-50 to 90	0
		"	4
		0 to 90	8
		0 to 95	16
		"	30
II-2	Cargo Container No. 1 - Pitch Angle Sweeps	-4	-5 to 45
		0	"
		4	"
		8	"
		12	"
		16	"
		20	"
		25	"
		30	"
		35	"
		45	"
		60	"
		75	"
		90	"
		95	"

TABLE I -- (Cont)

TABLE	TITLE	YAW ANGLE, DEG	PITCH ANGLE, DEG
III-1	Cargo Container No. 2 - Yaw Angle Sweeps	-50 to 95	0
		"	8
		0 to 95	16
III-2	Cargo Container No. 2 - Pitch Angle Sweeps	-4	-5 to 45
		0	"
		4	"
		8	"
		12	"
		16	"
		20	"
		25	"
		30	"
		45	"
		60	"
		75	"
		90	"
		95	"
IV-1	Cargo Container No. 3 - Yaw Angle Sweeps	0 to 95	0
		"	8
		"	16
		"	20

TABLE I -- (Cont)

table	TITLE	YAW ANGLE, DEG	PITCH ANGLE, DEG
IV-2	Cargo Container No. 3 - Pitch Angle Sweeps	-4	-5 to 20
		0	"
		4	"
		8	"
		12	"
		16	"
		20	"
		25	"
		30	"
		45	"
		60	"
		75	"
		90	"
		95	"
V-1	Cargo Container No. 1 - Strut Interference Tare Increments - Yaw Angle Sweeps	0 to 90	-5
		"	0
		"	4
		"	8
		"	12
		"	20

TABLE I -- (Cont)

TABLE	TITLE	YAW ANGLE, DEG	PITCH ANGLE, DEG
V-2	Cargo Container No. 2 - Strut Interference Tare Increments - Yaw Angle Sweeps	0	0 to 45
		16	"
		30	-5 to 45
		45	"
VI-1	Cargo Container No. 2 - Strut Interference Tare Increments - Yaw Angle Sweeps	0 to 75	-5
		"	0
		"	4
		"	8
		"	12
		"	20
VI-2	Cargo Container No. 2 - Strut Interference Tare Increments - Pitch Angle Sweeps	0	-5 to 45
		16	"
		30	"
		45	"
		60	"
VII-1	Cargo Container No. 3 - Strut Interference Tare Increments - Yaw Angle Sweeps	0 to 45	-5
		"	0
		"	4
		"	8
		"	12

TABLE I -- (Concl)

TABLE	TITLE	YAW ANGLE, DEG	PITCH ANGLE, DEG
VII-1(Cont)		"	20
VIII-1	Data Corrected for Strut Interference - Cargo Container No. 1	0 to 90 "	0 8
VIII-2	Data Corrected for Strut Interference - Cargo Container No. 2	0 to 75 "	0 8
VIII-3	Data Corrected for Strut Interference - Cargo Container No. 3	0 to 75 "	0 8
AI-1	Box No. 1 - Yaw Angle Sweeps	0 to 90	0
AI-2	Box No. 1 - Pitch Angle Sweeps	0 8 16 30	-4 to 44 " " "
AII-1	Box No. 2 - Yaw Angle Sweeps	0 to 90	0
AII-2	Box No. 2 - Pitch Angle Sweeps	0 16 30	-4 to 44 " "
AIII-1	Box No. 3 - Yaw Angle Sweeps	0 to 90	0
AIII-2	Box No. 3 - Pitch Angle Sweeps	0	-4 to 20

TABLE II-1. - CARGO CONTAINER NO. 1 - YAW ANGLE SWEEPS

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAW FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = 1.8 X 10**6							
0.00	-50.00	21.0	187.4	-90.7	-115.5	-251.0	310.7
	-45.00	37.3	171.1	-90.1	-54.0	-244.6	192.6
	-40.00	45.3	159.8	-88.3	-17.7	-213.9	169.4
	-35.00	42.5	148.0	-82.2	-11.8	-181.0	91.0
	-30.00	33.9	133.2	-75.8	-10.7	-141.8	95.2
	-25.00	27.6	119.6	-67.7	-0.3	-95.0	50.7
	-20.00	17.6	105.6	-53.5	-8.5	-34.3	76.5
	-16.00	13.5	95.1	-44.7	-27.6	21.8	79.5
	-8.00	6.4	74.1	-28.0	0.0	119.3	52.9
	0.00	4.2	61.0	-4.5	-60.5	30.7	17.7
	4.00	3.6	62.3	10.5	-27.8	-60.2	-6.9
	8.00	6.0	69.9	19.3	-41.2	-97.6	36.1
	12.00	8.2	81.2	26.9	-22.3	-68.1	-5.2
	16.00	10.7	91.9	33.1	14.6	-13.4	7.2
	20.00	16.2	100.6	42.1	2.0	40.9	1.2
	25.00	23.7	113.9	57.9	-1.9	111.6	-34.4
	30.00	31.9	127.4	67.9	-14.5	165.8	-13.4
	35.00	39.5	138.9	72.4	-1.6	206.0	-7.2
	40.00	45.3	149.6	80.7	-15.4	242.7	-68.9
	45.00	39.8	159.9	81.1	-28.0	273.5	-98.9
	50.00	28.3	171.3	84.4	-61.9	296.0	-167.4
	60.00	5.7	199.5	92.4	-250.1	291.7	-227.0
	75.00	-16.6	212.2	79.4	-257.1	237.0	-151.0
	90.00	-5.5	226.1	4.8	-210.7	38.5	-104.1

REYNOLDS NUMBER = 1.8 X 10**6

4.00	-50.00	27.2	192.8	-90.4	-125.6	-243.8	324.1
	-45.00	43.4	174.3	-81.0	-35.3	-221.5	182.6
	-40.00	57.2	161.6	-79.4	43.0	-186.4	142.1
	-35.00	59.1	151.6	-78.1	60.7	-156.0	109.3
	-30.00	53.7	137.8	-72.8	101.0	-120.9	114.3
	-25.00	46.8	123.6	-66.0	69.2	-81.1	80.4
	-20.00	38.1	109.7	-51.0	63.5	-18.6	11.9

TABLE 11-1. - CARGO CONTAINER NO. 1 - YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAW FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = 1.8 X 10**6

4.00	-16.00	29.6	99.0	-43.7	30.4	35.3	91.2
	-8.00	19.0	79.3	-25.3	-35.8	115.5	34.5
	0.00	12.5	66.1	-2.1	-81.1	24.5	-27.2
	4.00	11.9	66.9	12.2	-67.9	-42.0	1.2
	8.00	17.0	74.5	21.4	-31.5	-68.0	-4.7
	12.00	21.3	84.0	29.7	-9.0	-55.4	-18.0
	16.00	27.1	94.2	32.5	35.7	-20.3	-25.2
	20.00	34.0	104.7	42.0	55.3	33.0	-13.3
	25.00	44.0	117.3	56.2	50.5	96.9	-37.0
	30.00	51.3	131.3	65.0	63.5	147.5	-4.3
	35.00	60.4	143.8	69.0	41.5	183.4	-11.0
	40.00	62.2	154.4	74.3	18.9	219.9	-82.5
	45.00	50.7	163.2	75.6	11.8	251.1	-166.2
	50.00	30.6	178.1	80.5	-29.4	280.9	-137.9
	60.00	0.4	200.9	93.2	-236.4	297.1	-247.3
	75.00	-16.1	213.8	80.8	-264.4	239.3	-159.1
	90.00	-4.3	227.0	7.5	-234.8	44.8	-160.8

REYNOLDS NUMBER = 1.8 X 10**6

8.00	0.00	18.1	72.8	-3.4	-97.2	14.8	22.5
	4.00	17.9	74.1	13.2	-91.0	6.3	-1.5
	8.00	21.1	82.5	25.8	-55.2	5.7	-29.0
	12.00	28.6	90.3	31.0	-12.5	1.1	-33.7
	16.00	37.2	100.1	35.2	9.5	-1.9	14.7
	20.00	45.0	109.1	45.7	25.4	30.0	-0.7
	25.00	57.8	123.5	55.5	35.4	83.4	4.4
	30.00	68.0	135.5	61.8	61.4	129.0	-22.5
	35.00	72.7	148.9	68.2	82.0	175.2	-67.3
	40.00	68.9	158.0	73.0	65.0	205.1	-188.2
	45.00	49.9	170.3	76.9	33.9	244.6	-201.7
	50.00	33.7	187.5	85.9	-223.6	289.7	-199.1
	60.00	1.4	202.2	94.3	-263.9	296.9	-272.9
	75.00	-16.2	212.9	82.9	-262.3	240.6	-185.5
	90.00	-4.0	226.2	6.1	-206.0	42.3	-116.6

TABLE II-1. - CARGO CONTAINER NO. 1 - YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAW FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = $1.8 \times 10^{*6}$

16.00	0.00	26.7	88.3	-8.3	-5.1	5.2	68.0
	4.00	28.1	89.2	14.4	5.4	39.0	25.1
	8.00	33.7	94.8	33.2	23.1	57.9	-33.1
	12.00	41.4	104.6	45.3	1.9	76.0	-6.7
	16.00	49.8	115.2	53.5	41.3	94.7	-36.1
	20.00	63.4	128.0	54.7	44.1	76.6	-27.5
	25.00	76.4	142.5	53.3	59.1	121.1	5.1
	30.00	73.5	153.4	59.2	-13.1	167.8	-9.7
	35.00	67.8	163.6	63.6	-31.0	205.7	-10.6
	40.00	61.3	173.2	71.4	-87.8	236.9	-94.0
	45.00	52.8	182.6	75.8	-111.5	258.1	-138.0
	50.00	42.9	193.7	82.4	-186.2	285.1	-179.7
	60.00	8.7	205.4	93.9	-256.7	295.4	-298.9
	75.00	-18.4	210.6	86.4	-237.3	233.3	-164.0
	90.00	-2.0	226.2	6.3	-244.1	38.4	-123.8
	95.00	-0.6	228.4	-18.9	-49.8	-5.2	3.1

REYNOLDS NUMBER = $1.8 \times 10^{*6}$

30.00	0.00	51.2	120.1	-12.8	163.5	1.5	70.8
	4.00	49.7	121.7	13.1	141.3	66.2	39.2
	8.00	50.6	127.7	27.0	156.6	86.9	8.1
	12.00	59.4	137.9	39.4	108.5	54.6	22.4
	16.00	61.9	144.8	47.5	127.4	22.9	-24.5
	20.00	66.5	157.0	55.0	76.7	58.8	-60.0
	25.00	69.6	166.6	57.0	70.7	114.2	-46.6
	30.00	77.2	176.6	51.9	38.3	158.6	-52.3
	35.00	77.5	185.9	57.9	-2.2	181.4	-61.4
	40.00	73.5	193.7	59.1	-0.9	208.2	-59.7
	45.00	66.0	199.6	62.9	-19.0	237.1	-151.4
	50.00	54.2	204.3	68.0	-78.1	264.6	-172.6
	60.00	23.2	206.8	80.4	-186.0	278.7	-264.5
	75.00	-8.6	205.8	84.5	-213.2	224.0	-138.6
	90.00	-0.3	224.9	4.9	-245.5	46.2	-141.7
	95.00	-0.6	229.5	-21.9	-85.5	-4.7	-23.6

TABLE II-2. - CARGO CONTAINER NO. 1 - PITCH ANGLE SWEEPS

YAW PITCH LIFT DRAG SIDE PITCHING YAWING ROLLING
ANGLE ANGLE FORCE FORCE FORCE MOMENT MOMENT MOMENT
(DEG.) (DEG.) COEF. COEF. COEF. COEF. COEF. COEF. COEF.

REYNOLDS NUMBER = $1.8 \times 10^{**6}$

-4.00	-5.00	-8.6	68.3	-16.5	18.9	88.2	-23.2
	-2.00	-1.2	64.1	-17.4	0.3	103.0	37.1
	0.00	4.9	65.2	-17.7	-24.4	108.1	74.7
	2.00	9.9	68.4	-13.4	-57.7	104.4	-10.0
	4.00	14.0	72.4	-16.9	-111.0	80.1	56.4
	6.00	15.8	75.9	-17.8	-102.7	53.8	35.9
	8.00	18.2	78.8	-19.7	-106.6	30.0	60.5
	10.00	20.0	81.5	-20.9	-83.8	16.2	75.1
	12.00	23.5	84.9	-23.3	-74.5	4.4	76.5
	16.00	29.5	93.4	-27.0	-22.6	-18.5	68.8
	20.00	36.7	103.0	-31.9	46.8	-37.2	67.1
	25.00	45.5	114.3	-36.0	58.6	-46.4	107.3
	30.00	50.8	126.2	-31.9	118.7	-46.6	70.0
	35.00	56.4	135.8	-18.1	150.3	-34.9	58.1
	40.00	59.9	147.3	-11.4	218.2	-29.4	5.1
	45.00	62.1	159.8	-5.4	204.6	-6.9	38.1

REYNOLDS NUMBER = $1.8 \times 10^{**6}$

0.00	-5.00	-9.3	63.2	-4.7	58.3	31.1	-30.9
	-2.00	-3.4	58.9	-3.9	9.7	31.5	12.6
	0.00	4.0	59.6	-3.5	-33.6	29.5	-3.1
	2.00	9.0	63.1	-2.6	-104.4	27.7	-31.1
	4.00	12.1	66.4	-2.9	-105.0	23.5	6.8
	6.00	15.6	69.0	-3.3	-106.5	18.9	11.1
	8.00	18.7	73.0	-4.1	-112.1	16.2	10.8
	10.00	18.9	76.6	-4.2	-102.2	14.3	16.2
	12.00	23.4	80.5	-5.8	-69.1	12.8	23.3
	6.00	26.5	87.9	-6.2	-19.5	8.4	16.4
	20.00	34.8	96.7	-13.2	33.3	2.2	77.6
	25.00	44.2	110.1	-13.6	115.1	-0.9	53.5
	30.00	53.0	122.6	-12.1	147.1	-1.7	71.1
	35.00	53.9	129.0	-5.4	192.1	-1.2	75.2
	40.00	60.1	144.2	-3.2	202.9	8.2	74.6
	45.00	61.9	159.6	-0.5	206.5	16.0	78.3

TABLE II-2. - CARGO CONTAINER NO. 1 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAW FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = $1.8 \times 10^{*6}$

4.00	-5.00	-9.7	66.2	11.8	35.2	-44.4	5.7
	-2.00	-2.9	62.0	11.8	14.3	-57.6	-3.2
	0.00	3.6	62.3	11.9	-25.9	-60.7	-11.1
	2.00	9.3	64.5	12.7	-76.7	-54.0	-21.2
	4.00	12.5	69.2	12.1	-101.3	-33.7	10.7
	6.00	15.3	73.0	13.8	-111.8	-12.8	-5.2
	8.00	17.6	76.0	14.7	-118.7	5.3	-20.4
	10.00	19.5	78.9	14.4	-109.0	15.5	-12.7
	12.00	21.5	82.3	14.8	-68.1	24.8	-11.9
	16.00	27.7	88.8	13.7	-24.3	41.1	-0.0
	20.00	34.4	99.8	16.9	20.6	59.2	-23.9
	25.00	42.3	112.2	14.4	71.0	62.4	29.1
	30.00	48.8	123.2	11.0	119.2	64.0	63.8
	35.00	55.8	133.4	10.1	184.3	67.3	19.2
	40.00	58.8	145.3	4.7	220.5	68.2	30.4
	45.00	62.9	161.8	-0.2	190.3	48.1	64.9

REYNOLDS NUMBER = $1.8 \times 10^{*6}$

8.00	-5.00	-7.4	73.0	23.3	-4.6	-68.6	-27.3
	-2.00	-0.8	70.4	22.9	3.5	-86.1	-24.6
	0.00	6.0	70.1	22.1	-26.4	-96.7	-21.5
	2.00	10.1	71.9	22.7	-52.0	-101.0	40.8
	4.00	17.8	76.2	22.8	-82.5	-87.7	-25.1
	6.00	21.2	79.4	25.8	-77.8	-55.0	-81.2
	8.00	21.0	81.8	27.5	-64.3	-12.1	-67.1
	10.00	24.1	85.7	31.1	-66.7	19.6	-03.8
	12.00	26.0	89.1	32.5	-56.7	38.6	-65.1
	16.00	33.1	97.1	35.7	-2.9	63.4	-42.6
	20.00	40.1	107.0	36.9	39.8	78.6	-38.1
	25.00	47.3	120.5	32.7	41.1	93.4	15.3
	30.00	52.1	130.0	24.4	110.3	87.0	8.7
	35.00	57.7	140.9	17.4	179.3	79.6	48.7
	40.00	62.3	151.6	15.2	162.4	69.3	40.3
	45.00	65.2	165.6	6.5	201.1	32.5	57.0

TABLE II-2. - CARGO CONTAINER NO. 1 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = $1.8 \times 10^{+6}$

12.00	-5.00	-8.9	83.5	31.3	-38.1	-47.9	3.3
	-2.00	1.2	80.6	29.7	-15.2	-61.4	-21.6
	0.00	8.7	80.7	28.5	-26.4	-69.4	-18.3
	2.00	15.7	81.6	26.3	-18.6	-74.3	6.5
	4.00	22.3	82.8	32.7	-34.3	-70.8	-73.6
	6.00	27.5	86.2	32.4	-15.5	-58.7	-39.4
	8.00	30.0	90.6	33.4	-39.0	-17.1	-24.6
	10.00	30.9	94.4	34.9	-52.8	25.2	-12.7
	12.00	31.9	98.1	35.1	-58.9	52.4	13.5
	16.00	41.2	106.6	45.7	-8.0	79.4	-46.9
	20.00	48.0	115.2	48.0	23.7	82.2	-6.0
	25.00	53.8	128.6	47.6	62.0	77.0	-23.9
	30.00	59.0	141.0	37.4	74.1	57.5	45.1
	35.00	60.1	148.2	26.3	149.4	42.7	77.5
	40.00	66.8	158.0	18.3	166.9	5.4	-22.7
	45.00	67.3	167.4	6.9	188.5	2.1	23.4

REYNOLDS NUMBER = $1.8 \times 10^{+6}$

16.00	-5.00	-9.0	92.3	38.8	-40.2	0.0	-24.5
	-2.00	2.5	91.0	34.6	-15.6	-11.7	21.6
	0.00	9.8	91.9	31.2	0.0	-18.5	33.2
	2.00	18.2	92.9	29.6	10.0	-23.0	40.8
	4.00	27.4	95.0	29.9	7.7	-25.4	30.3
	6.00	34.0	96.5	32.5	-3.2	-25.0	20.9
	8.00	36.9	99.2	34.0	-0.6	-14.4	26.7
	10.00	38.8	104.2	38.0	-10.6	28.1	-19.9
	12.00	42.1	109.0	39.7	-35.7	69.0	43.2
	16.00	49.1	116.4	52.1	6.8	96.2	-22.9
	20.00	56.8	128.1	58.8	27.1	102.3	-41.4
	25.00	59.0	139.5	58.7	100.6	72.6	-34.7
	30.00	63.1	146.6	48.3	108.7	23.8	-88.8
	35.00	67.1	153.3	34.8	163.2	20.3	9.4
	40.00	68.5	163.5	25.3	151.7	18.7	-12.8
	45.00	66.9	170.1	13.8	179.2	14.3	-15.4

TABLE T1-2. - CARGO CONTAINER NO. 1 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = 1.8 X 10**6

20.00	-5.00	-5.9	102.2	48.4	-76.1	55.6	-0.4
	-2.00	6.6	100.6	45.7	-32.3	45.1	-15.4
	0.00	16.3	100.5	41.7	-0.5	35.9	-18.1
	2.00	24.1	101.5	39.9	7.0	32.2	33.4
	4.00	32.6	105.1	40.7	28.5	29.2	-1.4
	6.00	40.1	107.2	43.2	21.6	24.4	5.4
	8.00	44.1	110.5	44.2	-7.1	29.6	35.6
	10.00	48.7	115.0	48.0	-30.4	52.1	26.8
	12.00	54.2	120.8	49.2	-21.0	58.2	-3.7
	16.00	61.6	129.2	55.0	8.9	85.1	-0.4
	20.00	69.5	138.6	56.7	29.7	86.6	-44.8
	25.00	64.0	149.7	62.8	55.6	90.4	-11.3
	30.00	65.7	155.7	53.8	104.3	57.8	-32.0
	35.00	69.1	164.7	46.0	111.1	56.5	-71.8
	40.00	69.3	170.5	34.7	146.9	56.7	-22.5
	45.00	69.1	180.4	22.1	150.1	43.8	-26.0

REYNOLDS NUMBER = 1.8 X 10**6

25.00	-5.00	0.4	114.0	60.9	-103.6	127.7	-35.4
	-2.00	15.4	113.7	59.2	-58.2	120.5	-24.2
	0.00	24.4	113.9	57.1	-9.2	111.0	-10.0
	2.00	33.2	115.8	55.9	9.1	102.1	-9.2
	4.00	40.7	117.1	55.1	29.3	94.8	-24.5
	6.00	52.3	120.9	53.5	45.6	95.9	-5.7
	8.00	57.9	123.7	54.1	25.3	86.6	51.9
	10.00	60.7	128.7	56.3	9.8	98.4	35.7
	12.00	63.0	133.8	57.3	33.3	109.3	7.2
	16.00	77.2	144.4	53.0	7.7	123.7	-31.0
	20.00	79.8	151.9	49.5	6.5	136.1	-37.8
	25.00	73.3	161.2	58.0	28.8	139.4	-19.3
	30.00	68.2	166.9	56.7	77.9	115.2	-38.3
	35.00	72.9	174.8	48.8	119.0	106.6	-10.8
	40.00	73.7	183.7	41.1	127.2	100.0	-68.1
	45.00	72.6	193.2	32.7	98.0	92.8	-35.0

TABLE II-2. - CARGO CONTAINER NO. 1 - PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = 1.8 X 10**6

30.00	-5.00	8.1	125.8	70.7	-83.0	183.2	-22.4
	-2.00	23.4	127.4	68.9	-48.6	174.3	33.0
	0.00	33.4	128.5	68.8	-11.5	166.3	-21.6
	2.00	43.3	130.2	65.5	22.8	156.1	42.8
	4.00	52.4	132.1	65.9	60.4	148.7	-24.6
	6.00	61.0	134.4	64.3	79.4	143.7	-10.8
	8.00	68.2	137.7	63.1	47.8	132.5	-31.1
	10.00	70.9	140.5	63.8	64.0	130.0	-45.7
	12.00	73.1	144.4	62.6	32.3	137.5	-34.2
	16.00	72.7	154.0	58.1	-21.6	168.7	-13.8
	20.00	74.7	157.6	52.4	-19.9	167.2	-22.2
	25.00	76.9	167.5	51.7	-2.4	160.7	3.0
	30.00	76.5	177.2	53.3	25.4	160.5	-33.3
	35.00	76.2	188.8	50.9	49.5	146.7	-58.4
	40.00	76.0	196.6	45.2	51.2	135.4	-118.6
	45.00	73.2	204.0	37.9	63.2	126.0	-26.7

REYNOLDS NUMBER = 1.8 X 10**6

35.00	-5.00	13.2	138.7	77.1	-99.6	231.2	-30.7
	-2.00	29.6	137.7	75.7	-42.0	217.5	-35.1
	0.00	38.8	139.5	74.8	-25.1	207.3	-58.5
	2.00	48.7	141.8	72.5	0.5	196.9	-47.7
	4.00	58.8	143.0	71.9	39.3	185.6	-100.0
	6.00	65.9	145.3	68.3	62.1	178.6	-43.2
	8.00	71.7	148.4	68.3	53.5	175.3	-102.0
	10.00	75.6	151.3	66.5	44.6	176.7	-91.1
	12.00	69.1	156.1	68.0	31.8	186.9	-148.6
	16.00	68.5	162.1	63.3	-39.1	211.0	-70.6
	20.00	69.3	168.5	58.5	-48.1	205.8	-15.3
	25.00	74.6	177.6	58.6	-21.0	190.4	-5.7
	30.00	75.7	186.9	56.9	-36.9	180.6	-45.8
	35.00	77.6	196.4	51.9	-2.7	167.7	-64.5
	40.00	75.1	204.6	47.3	50.5	157.4	-78.2
	45.00	73.0	212.7	38.9	43.8	150.4	-70.7

TABLE II-2. - CARGO CONTAINER NO. 1 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DFG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAW FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = 1.8 X 10⁶

45.00	-5.00	24.1	160.7	89.3	-92.8	298.0	-94.7
	-2.00	31.8	159.5	84.9	-87.3	282.9	-106.7
	0.00	38.8	160.6	83.2	-33.3	274.2	-158.0
	2.00	44.9	161.7	79.4	-28.9	264.8	-162.9
	4.00	48.5	163.0	76.5	-2.5	255.8	-171.7
	6.00	50.3	164.9	76.5	13.4	245.3	-253.0
	8.00	49.0	170.6	75.5	-0.0	246.5	-188.3
	10.00	50.4	175.6	76.3	-72.7	251.8	-186.7
	12.00	53.7	178.7	76.4	-101.1	260.1	-173.6
	16.00	54.0	182.1	75.4	-92.7	262.7	-151.6
	20.00	55.5	185.2	72.9	-52.9	256.0	-113.7
	25.00	61.8	193.8	68.3	-30.6	250.8	-149.2
	30.00	65.9	202.0	63.1	-44.0	239.9	-156.5
	35.00	68.9	208.2	58.3	-7.1	224.0	-189.4
	40.00	69.7	218.0	51.0	-17.3	213.6	-198.3
	45.00	68.0	225.4	42.5	-3.8	200.0	-158.4

REYNOLDS NUMBER = 1.8 X 10⁶

60.00	-5.00	5.5	194.2	86.5	-226.7	286.2	-142.4
	-2.00	5.6	196.1	88.0	-229.6	285.3	-204.7
	0.00	5.0	198.3	86.4	-235.4	289.8	-151.4
	2.00	1.1	199.1	87.8	-243.1	289.6	-169.8
	4.00	-0.5	201.7	88.5	-253.1	292.1	-183.8
	6.00	0.3	202.1	90.1	-256.6	294.5	-229.3
	8.00	1.1	202.2	89.5	-261.7	295.4	-224.7
	10.00	2.7	202.9	90.0	-234.2	298.8	-208.7
	12.00	4.6	203.4	92.2	-237.4	298.6	-277.0
	16.00	8.2	203.9	90.4	-233.0	295.5	-253.7
	20.00	11.1	203.7	87.6	-233.2	286.4	-216.3
	25.00	16.8	205.4	85.3	-213.5	279.2	-243.0
	30.00	21.7	206.6	80.5	-194.6	276.4	-216.8
	35.00	26.4	208.4	73.4	-154.6	268.7	-199.1
	40.00	31.0	209.9	67.7	-101.9	263.4	-223.8
	45.00	34.2	213.4	59.8	-96.3	255.0	-208.2

TABLE II-2. - CARGO CONTAINER NO. 1 - PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAW FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = 1.8 X 10⁶

75.00	-5.00	-12.6	211.6	74.1	-249.9	235.9	-46.3
	-2.00	-15.6	213.1	75.0	-258.5	240.3	-65.8
	0.00	-16.6	214.9	76.9	-249.4	241.9	-75.5
	2.00	-16.6	212.7	76.4	-264.4	239.0	-74.0
	4.00	-18.1	212.6	77.5	-217.8	238.4	-82.0
	6.00	-18.5	211.4	78.1	-235.8	236.8	-77.3
	8.00	-18.7	211.5	79.1	-207.6	236.7	-104.4
	10.00	-19.4	212.8	79.9	-234.5	237.9	-99.1
	12.00	-20.5	211.5	80.7	-232.6	236.3	-107.6
	16.00	-19.6	203.6	82.6	-203.9	236.6	-110.1
	20.00	-18.1	207.9	84.5	-180.7	231.4	-135.3
	25.00	-12.9	205.5	81.7	-202.0	224.2	-85.2
	30.00	-9.8	206.4	32.3	-209.7	219.0	-93.0
	35.00	-5.7	204.2	53.0	-176.0	211.1	-73.2
	40.00	-0.6	204.5	81.2	-230.0	196.5	-67.0
	45.00	3.0	201.2	78.0	-130.3	187.2	-72.0

REYNOLDS NUMBER = 1.8 X 10⁶

90.00	-5.00	-7.7	225.4	-0.4	-201.6	38.8	-40.8
	-2.00	-5.9	223.4	0.1	-225.5	33.9	-59.0
	0.00	-6.2	224.2	1.3	-232.8	36.8	-67.0
	2.00	-5.5	221.8	0.9	-195.3	34.0	-60.4
	4.00	-8.0	226.4	2.7	-202.9	37.1	-59.7
	6.00	-5.4	226.2	2.1	-222.6	35.9	-101.0
	8.00	-5.0	224.6	3.1	-211.2	37.5	-107.5
	10.00	-4.9	225.1	3.7	-211.7	36.9	-127.7
	12.00	-4.8	225.0	3.0	-192.7	36.5	-94.0
	16.00	-5.1	224.4	4.5	-201.7	41.4	-113.5
	20.00	-4.5	225.5	3.0	-215.8	41.6	-77.0
	25.00	-4.0	224.7	4.8	-225.8	42.5	152.0
	30.00	-3.5	226.6	2.0	-236.4	43.1	-77.3
	35.00	-3.3	224.9	-0.6	-263.1	46.7	-66.8
	40.00	-1.1	223.2	-1.2	-250.5	52.9	-64.6
	45.00	-1.9	224.0	-6.6	-176.0	53.0	-35.4

TABLE YI-2. - CARGO CONTAINER NO. 1 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = 1.8 X 10**6							
95.00	-5.00	-4.5	229.0	-23.5	-62.3	-8.9	64.4
	-2.00	-3.4	231.7	-22.4	-49.7	-9.6	36.2
	0.00	-3.6	228.2	-21.6	-19.9	-10.6	31.7
	2.00	-2.8	229.5	-21.0	-61.1	-10.0	28.4
	4.00	-2.9	229.5	-21.5	-34.0	-10.1	19.3
	6.00	-1.7	230.9	-20.9	-79.9	-11.3	-27.5
	8.00	-2.5	230.8	-20.9	-65.4	-12.6	15.1
	10.00	-2.3	229.2	-20.0	-38.6	-8.8	-7.8
	12.00	-2.1	230.5	-21.4	-31.5	-7.8	27.4
	16.00	-1.4	228.9	-21.3	-41.7	-7.7	10.0
	20.00	-1.5	227.7	-21.0	-36.0	-5.9	5.2
	25.00	-1.3	226.9	-21.3	-59.2	-4.1	-28.6
	30.00	-2.9	228.0	-23.8	-62.1	-2.9	36.0
	35.00	-0.2	227.8	-28.3	-87.5	-4.8	28.6
	40.00	-0.2	227.5	-30.0	-67.0	5.1	9.9
	45.00	-1.2	225.4	-34.5	-27.8	6.5	55.2

TABLE III-1. - CARGO CONTAINER NO. 2 - YAW ANGLE SWEEPS

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = $1.8 \times 10^{*6}$							
0.00	-50.00	25.6	359.3	-228.3	-207.8	-1114.6	876.1
	-45.00	38.4	315.2	-214.9	66.4	-1065.8	530.7
	-40.00	67.7	274.5	-206.8	52.5	-1001.9	406.7
	-35.00	88.6	234.8	-202.8	98.3	-906.1	267.7
	-30.00	93.7	193.9	-183.1	-123.6	-844.7	137.0
	-25.00	70.0	164.5	-152.1	-74.3	-690.0	125.5
	-20.00	47.0	137.1	-118.9	-1.2	-504.1	114.3
	-16.00	28.8	118.4	-91.3	75.1	-343.7	156.1
	-12.00	16.6	97.4	-66.0	43.4	-171.8	156.4
	-8.00	6.0	86.0	-38.9	-56.9	-30.8	102.0
	-4.00	0.9	71.0	-21.3	47.4	35.4	48.8
	0.00	-3.8	63.5	1.0	58.9	38.3	-49.4
	4.00	-2.3	67.1	18.2	80.2	31.1	-34.0
	8.00	1.1	77.5	37.0	71.7	70.1	-118.2
	12.00	8.1	94.1	45.8	41.8	168.5	-62.5
	16.00	18.8	110.2	63.6	114.2	322.4	0.0
	20.00	37.2	131.8	93.9	-31.4	502.8	-12.6
	25.00	61.3	157.0	124.2	-97.5	676.3	-67.2
	30.00	82.4	181.0	154.1	-83.7	853.2	-37.1
	35.00	92.0	216.1	173.6	-55.8	948.6	-136.4
	40.00	76.2	247.7	185.7	105.1	1031.2	-305.2
	45.00	43.7	286.7	197.5	157.5	1136.7	-519.9
	50.00	26.9	323.3	214.1	-64.4	1206.9	-508.2
	60.00	14.7	393.3	224.9	-409.8	1346.3	-574.0
	75.00	-14.8	466.0	169.6	-661.6	903.4	-206.7
	90.00	-14.1	491.5	21.2	-784.0	28.9	-337.5
	95.00	-5.0	505.2	-31.2	-132.8	-231.5	-46.4

TABLE III-1. - CARGO CONTAINER NO. 2 - YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = $1.8 \times 10^{*6}$							
8.00	-50.00	62.9	373.0	-236.2	-4.8	-1189.8	1116.2
	-45.00	83.5	336.9	-224.0	278.1	-1089.4	817.0
	-40.00	116.4	303.6	-209.6	708.6	-998.9	780.1
	-35.00	169.5	270.8	-202.3	799.5	-912.4	638.6
	-30.00	190.1	232.7	-176.7	626.4	-763.9	263.5
	-25.00	176.7	194.7	-149.0	477.6	-676.7	232.0
	-20.00	140.3	166.2	-120.6	399.8	-527.3	96.9
	-16.00	89.4	138.2	-96.3	682.7	-392.2	200.3
	-12.00	65.4	116.2	-73.6	299.4	-302.6	129.1
	-8.00	38.5	100.1	-48.7	185.0	-201.8	-29.9
	-4.00	26.2	87.6	-32.8	144.7	-102.7	46.6
	0.00	17.3	75.3	-2.5	92.7	11.6	-64.2
	4.00	18.8	81.0	20.3	117.2	105.1	-34.9
	8.00	28.6	92.8	46.3	203.1	219.2	-163.4
	12.00	51.4	108.8	61.1	211.6	308.5	-139.3
	16.00	78.5	127.9	72.3	303.6	405.6	-67.8
	20.00	116.0	153.3	96.1	264.8	525.3	33.7
	25.00	161.0	181.5	120.6	399.4	692.5	-14.7
	30.00	190.7	214.7	149.1	407.8	814.2	-33.9
	35.00	181.8	251.5	181.5	687.1	935.3	-455.0
	40.00	130.5	275.5	192.2	715.9	1059.4	-728.3
	45.00	90.3	307.6	206.4	414.8	1131.8	-818.3
	50.00	58.7	337.2	214.3	125.1	1254.1	-665.9
	60.00	21.1	400.0	228.3	-470.3	1337.7	-770.3
	75.00	-16.6	464.8	178.4	-651.8	902.1	-338.8
	90.00	-12.5	486.8	22.6	-715.1	28.4	-319.1
	95.00	-3.7	500.4	-31.6	-264.6	-234.3	-28.2

TABLE III-1. - CARGO CONTAINER NO. 2 - YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = 1.8×10^6

16.00	0.00	44.5	96.4	-13.5	484.1	15.5	134.8
	4.00	48.4	106.2	39.7	421.2	168.1	-63.4
	8.00	61.8	120.3	73.8	421.7	344.7	-208.5
	12.00	86.4	143.3	104.9	422.1	509.0	-159.5
	16.00	126.6	167.0	127.6	556.7	668.8	-323.3
	20.00	159.6	194.1	125.7	657.2	835.4	-5.5
	25.00	213.9	234.5	130.2	633.2	1039.8	-0.1
	30.00	247.6	268.2	137.2	903.3	1174.5	-151.2
	35.00	238.6	295.0	151.8	942.8	1162.0	-391.7
	40.00	196.4	315.0	173.3	704.0	1321.4	-615.8
	45.00	154.9	335.2	176.9	327.5	1397.8	-408.7
	50.00	116.1	354.4	197.2	240.9	1440.3	-637.9
	60.00	11.6	399.0	227.8	-224.0	1320.6	-742.3
	75.00	-17.9	463.3	183.8	-534.8	886.9	-351.7
	90.00	-12.1	490.8	24.6	-617.9	17.5	-426.0
	95.00	-1.8	499.1	-30.1	-254.9	-225.8	-117.5

REYNOLDS NUMBER = 1.8×10^6

30.00	0.00	107.5	160.5	-25.1	985.7	-31.2	95.8
	4.00	115.6	172.9	70.1	967.4	274.4	82.8
	8.00	126.3	194.1	105.1	983.5	466.2	66.0
	12.00	128.4	221.8	157.8	1006.2	547.9	7.8
	16.00	147.5	252.0	180.5	1231.4	589.6	-44.3
	20.00	177.9	292.4	199.8	1311.9	915.7	-157.5
	25.00	225.8	337.7	193.3	1473.5	1231.4	-129.1
	30.00	274.9	379.8	150.9	1419.1	1478.1	-31.0
	35.00	277.1	392.1	115.2	1296.6	1464.8	-147.4
	40.00	253.8	392.2	113.0	1031.5	1350.1	43.7
	45.00	222.0	402.4	124.7	732.0	1296.5	-276.4
	50.00	157.1	399.1	157.0	295.5	1229.9	-424.5
	60.00	30.9	411.2	216.0	-313.7	960.2	-617.5
	75.00	-18.9	451.0	190.3	-374.6	755.7	-431.3
	90.00	-11.9	489.3	26.7	-776.0	32.2	-554.8
	95.00	-5.6	502.1	-28.2	-394.2	-186.0	-237.0

TABLE III-2. - CARGO CONTAINER NO. 2 - PITCH ANGLE SWEEPS

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = 1.8 X 10 ⁶							
-4.00	-5.00	-12.3	73.1	-29.7	-12.0	36.5	118.8
	-2.00	-4.8	70.8	-23.1	30.8	35.6	143.0
	0.00	0.7	73.7	-18.5	42.0	40.6	21.8
	2.00	5.2	75.5	-18.4	57.6	24.7	16.7
	4.00	10.1	78.7	-19.5	51.9	-17.5	-4.2
	6.00	16.3	81.9	-26.6	81.1	-59.1	104.1
	8.00	24.4	86.9	-24.3	117.6	-93.9	-327.4
	10.00	31.8	88.4	-40.4	209.5	-133.3	248.0
	12.00	38.2	92.8	-43.5	288.5	-138.2	112.2
	16.00	57.1	108.0	-66.1	413.0	-156.0	172.8
	20.00	72.9	126.9	-87.0	617.5	-161.2	224.5
	25.00	95.2	152.6	-103.5	813.8	-184.9	250.0
	30.00	118.3	177.4	-100.0	1081.9	-239.7	164.9
	35.00	145.0	204.9	-77.4	1189.2	-322.8	-163.8
	40.00	159.3	229.5	-24.0	1336.5	-304.8	-35.7
	45.00	174.2	264.5	3.0	1246.2	-250.5	-97.8

REYNOLDS NUMBER = 1.8 X 10⁶

0.00	-5.00	-12.6	64.6	-5.1	58.1	35.7	-14.4
	-2.00	-5.7	62.2	-1.0	80.8	40.5	-25.6
	0.00	-1.9	63.6	-0.6	48.1	38.2	-44.4
	2.00	1.3	67.0	-0.6	45.1	34.6	-50.4
	4.00	6.5	69.9	0.8	38.2	31.3	-109.7
	6.00	12.5	72.8	0.0	68.5	25.7	-95.7
	8.00	18.9	76.5	-4.0	135.5	15.2	-29.6
	10.00	25.6	81.7	-4.7	173.0	6.4	-63.7
	12.00	33.9	87.1	-8.1	283.2	4.7	-71.0
	16.00	49.2	98.8	-19.5	475.5	-3.6	52.8
	20.00	64.6	114.0	-25.4	705.2	22.9	94.1
	25.00	81.3	134.5	-29.9	784.1	9.4	263.9
	30.00	109.8	163.1	-35.4	940.2	-45.9	233.8
	35.00	132.8	189.8	-21.5	1146.2	-19.1	83.0
	40.00	157.9	225.3	-13.4	1221.4	36.4	157.8
	45.00	169.4	262.1	-20.8	1459.0	63.6	269.4

TABLE 111-2. - CARGO CONTAINER NO. 2 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = $1.7 \times 10^{*6}$							
4.00	-5.00	-14.2	68.9	18.5	11.1	20.1	39.3
	-2.00	-6.0	67.4	19.7	58.8	22.0	-143.9
	0.00	-2.2	68.0	17.8	62.3	23.7	-82.1
	2.00	2.2	70.3	17.5	43.7	42.5	-79.1
	4.00	7.2	74.2	18.9	43.1	75.6	-84.7
	6.00	11.3	77.1	19.6	98.7	95.8	-68.0
	8.00	19.0	80.8	20.5	105.8	118.1	-15.0
	10.00	24.8	85.0	22.7	201.8	131.9	0.2
	12.00	33.6	90.2	25.1	201.8	141.4	21.3
	16.00	50.0	106.2	41.8	414.9	164.9	-130.0
	20.00	66.6	122.3	54.3	589.9	151.2	-160.5
	25.00	87.1	144.1	68.3	807.5	189.9	-52.6
	30.00	115.4	169.2	70.7	959.9	261.1	-122.9
	35.00	142.8	197.2	47.6	1104.6	354.6	-80.1
	40.00	155.9	228.0	11.4	1119.5	356.8	255.0
	45.00	168.5	260.1	-15.3	1356.1	319.4	355.2

REYNOLDS NUMBER = $1.7 \times 10^{*6}$							
8.00	-5.00	-17.2	81.1	41.5	-59.0	71.9	-130.0
	-2.00	-5.2	79.1	37.0	10.3	68.2	-116.1
	0.00	1.1	78.8	33.1	58.4	65.1	-72.3
	2.00	9.3	81.6	32.5	88.6	73.5	-84.0
	4.00	16.6	85.3	34.6	134.5	111.8	-77.6
	6.00	22.0	88.6	37.6	142.6	166.0	-100.6
	8.00	30.3	92.8	43.2	144.5	227.1	-102.5
	10.00	36.4	97.5	49.7	212.8	275.7	-85.7
	12.00	46.3	105.8	58.1	300.3	303.7	-128.6
	16.00	61.0	121.4	72.0	449.3	336.0	-106.0
	20.00	79.1	142.0	94.1	534.6	330.9	-78.0
	25.00	99.7	166.9	120.8	861.7	394.8	-134.4
	30.00	122.0	188.	123.9	1085.1	441.8	4.2
	35.00	144.3	211.4	94.2	1217.5	512.1	122.1
	40.00	168.9	241.2	41.4	1324.6	529.3	249.6
	45.00	176.1	274.0	9.8	1346.5	477.7	419.1

TABLE 111-2. - CARGO CONTAINER NO. 2 - PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = 1.7 X 10**6							
12.00	-5.00	-21.7	96.3	60.6	-102.9	202.1	-90.1
	-2.00	-1.6	92.2	57.8	-34.0	189.0	-136.8
	0.00	10.6	91.8	56.0	45.4	187.3	-164.6
	2.00	22.1	95.1	54.6	120.2	194.7	-120.3
	4.00	33.8	98.9	54.7	170.3	223.8	-133.7
	6.00	42.0	103.3	57.0	217.9	257.2	-145.6
	8.00	52.5	108.3	61.7	238.6	323.1	-141.4
	10.00	59.3	114.0	71.8	264.2	399.3	-64.2
	12.00	68.6	123.2	79.8	370.4	469.8	-12.4
	16.00	89.1	143.1	105.3	417.1	507.9	-99.7
	20.00	98.7	166.4	127.3	665.3	526.5	-149.4
	25.00	114.6	195.8	148.8	865.3	547.8	-105.0
	30.00	129.6	221.3	157.9	1053.1	553.8	-31.3
	35.00	148.4	242.0	130.9	1181.9	558.3	1.6
	40.00	164.9	259.1	107.2	1422.2	518.4	-8.8
	45.00	169.9	280.8	64.4	1569.6	487.1	107.4

REYNOLDS NUMBER = 1.7 X 10**6							
16.00	-5.00	-22.9	111.0	78.9	-68.7	381.4	16.8
	-2.00	-0.1	108.8	73.5	18.8	351.0	7.4
	0.00	20.3	110.4	74.1	116.9	347.3	-8.9
	2.00	38.2	112.9	74.0	154.3	342.2	-36.0
	4.00	55.3	118.1	81.2	240.3	350.2	-305.6
	6.00	70.8	123.2	80.6	265.9	380.9	-174.1
	8.00	81.7	129.6	80.5	304.5	435.4	-33.4
	10.00	95.0	139.6	88.2	335.3	513.1	-141.6
	12.00	104.0	146.3	98.4	433.3	585.7	-101.6
	16.00	118.9	165.8	124.4	635.3	670.0	-169.5
	20.00	135.3	190.6	146.9	759.1	730.7	-164.7
	25.00	141.6	225.5	173.0	1023.0	751.8	-118.4
	30.00	145.7	252.1	187.3	1239.6	711.8	-211.0
	35.00	157.0	274.1	171.5	1324.9	669.0	0.5
	40.00	168.9	294.9	131.5	1367.6	540.3	27.7
	45.00	171.5	304.7	97.4	1584.5	442.1	34.4

TABLE III-2. - CARGO CONTAINER NO. 2 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = 1.7 X 10 ⁶							
20.00	-5.00	-27.8	127.7	90.4	-249.4	575.7	136.6
	-2.00	7.4	127.2	93.7	-91.3	534.2	-16.6
	0.00	32.8	129.8	95.2	-35.7	508.7	-26.5
	2.00	59.2	135.8	99.8	84.4	493.6	-179.0
	4.00	81.8	140.8	97.5	114.4	486.5	-100.6
	6.00	102.2	148.6	100.5	205.2	510.3	-104.1
	8.00	112.8	155.1	101.0	322.1	546.9	-79.4
	10.00	128.9	163.2	101.3	337.7	613.5	-32.9
	12.00	139.9	172.3	111.7	431.1	703.4	-144.2
	16.00	165.3	198.4	136.1	541.2	848.1	-122.7
	20.00	178.7	225.4	161.7	755.3	954.0	-221.2
	25.00	182.5	260.2	185.9	1013.7	1004.8	-348.1
	30.00	174.0	292.4	201.4	1305.5	922.8	-67.0
	35.00	170.4	311.1	200.5	1481.1	823.2	80.2
	40.00	174.9	328.8	172.3	1562.3	722.0	29.2
	45.00	178.8	343.3	131.0	1532.5	559.1	-57.1
REYNOLDS NUMBER = 1.7 X 10 ⁶							
25.00	-5.00	-23.7	150.1	120.6	-255.3	800.3	-105.4
	-2.00	26.0	152.9	124.0	-161.5	742.5	-26.6
	0.00	66.7	157.1	124.5	-71.4	687.3	-15.0
	2.00	84.5	161.9	125.3	9.2	664.7	52.4
	4.00	119.4	168.5	130.6	164.7	663.7	-6.7
	6.00	142.1	178.7	130.3	205.3	676.2	-21.7
	8.00	163.2	186.6	130.1	350.1	710.6	-146.0
	10.00	181.3	197.3	124.0	359.0	765.5	-34.2
	12.00	194.5	208.0	127.6	527.0	841.4	-125.7
	16.00	214.8	236.3	135.4	740.0	1042.8	-189.5
	20.00	226.0	263.3	147.8	1020.0	1179.6	-166.1
	25.00	237.8	304.3	170.4	1146.5	1280.2	-189.4
	30.00	229.1	337.9	191.8	1450.2	1251.5	-57.8
	35.00	212.0	370.2	215.2	1578.8	1115.8	-278.1
	40.00	193.4	383.1	196.7	1693.7	916.6	-16.0
	45.00	193.7	390.8	158.0	1683.5	735.8	-81.2

TABLE III-2. - CARGO CONTAINER NO. 2 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = 1.8 X 10**6

30.00	-5.00	-24.7	175.0	143.2	-390.3	969.6	310.0
	-2.00	47.7	175.9	150.9	-254.0	920.5	130.0
	0.00	83.3	181.0	155.8	-179.5	864.9	130.3
	2.00	119.0	188.3	156.8	-53.9	823.5	107.0
	4.00	143.2	197.1	155.6	93.1	794.9	85.5
	6.00	164.3	207.5	158.3	367.9	805.4	-23.9
	8.00	183.9	217.1	151.4	452.8	832.8	152.5
	10.00	198.2	228.7	143.1	528.5	880.7	585.7
	12.00	214.8	241.9	142.0	692.5	966.5	396.3
	16.00	242.8	268.1	135.2	808.4	1177.6	-2.8
	20.00	265.7	302.9	135.2	920.1	1369.1	-54.8
	25.00	260.6	345.0	142.9	1260.7	1491.7	646.7
	30.00	273.6	385.8	155.0	1406.2	1492.9	59.6
	35.00	261.1	413.7	169.8	1507.8	1405.7	-154.2
	40.00	240.5	437.3	178.0	1793.0	1190.9	-135.1
	45.00	202.6	432.7	150.3	1790.4	949.7	253.4

REYNOLDS NUMBER = 1.8 X 10**6

45.00	-5.00	14.5	277.8	199.0	-332.0	1050.4	113.8
	-2.00	22.5	279.3	199.0	42.4	1159.0	-176.5
	0.00	31.1	283.9	198.0	175.3	1135.6	59.2
	2.00	44.3	289.7	202.8	267.0	1135.9	-227.0
	4.00	53.3	294.9	203.7	296.5	1127.0	-253.3
	6.00	65.3	301.7	202.3	412.3	1126.5	-234.4
	8.00	76.5	308.5	203.4	477.9	1138.0	-287.4
	10.00	87.4	317.9	201.5	461.1	1160.9	-137.5
	12.00	108.7	325.9	201.5	499.8	1187.6	-244.2
	16.00	143.6	334.5	188.3	597.6	1402.5	-86.8
	20.00	181.3	350.8	162.3	542.2	1388.7	-208.8
	25.00	201.9	365.3	142.0	543.2	1332.2	-323.3
	30.00	210.8	395.3	132.2	766.7	1280.0	-180.1
	35.00	199.1	421.2	125.5	493.6	1170.5	280.7
	40.00	183.6	438.2	125.2	478.9	982.3	488.7
	45.00	171.3	458.2	111.3	440.5	797.8	-524.8

TABLE III-2. - CARGO CONTAINER NO. 2 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAW FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = 1.7 X 10**6							
60.00	-5.00	-6.6	392.9	219.7	-611.2	1361.5	-338.8
	-2.00	5.3	391.4	219.0	-416.3	1348.9	-414.5
	0.00	14.1	388.0	217.8	-370.0	1327.0	-437.8
	2.00	20.1	396.6	219.4	-460.7	1350.3	-432.0
	4.00	22.9	398.6	223.0	-399.7	1351.4	-653.4
	6.00	19.7	398.6	224.0	-277.2	1328.6	-647.0
	8.00	18.7	399.2	223.3	-370.2	1347.5	-643.7
	10.00	17.3	399.4	222.3	-411.8	1356.7	-668.4
	12.00	16.7	398.8	222.7	-359.8	1357.3	-672.7
	16.00	12.5	400.5	224.6	-270.1	1309.7	-690.0
	20.00	7.7	402.5	226.4	-149.4	1212.3	-879.9
	25.00	19.7	409.8	220.7	-286.9	1105.3	-669.5
	30.00	33.4	414.3	217.3	-291.3	965.3	-776.4
	35.00	46.0	416.6	202.6	-223.3	893.1	-542.1
	40.00	67.5	425.8	183.4	-270.4	850.5	-636.3
	45.00	77.1	433.4	165.0	-150.3	811.8	-537.0

REYNOLDS NUMBER = 1.7 X 10**6

75.00	-5.00	-11.1	464.9	168.2	-793.1	904.7	-305.9
	-2.00	-13.4	460.6	167.5	-673.8	906.1	-233.2
	0.00	-14.3	464.6	170.2	-614.8	911.2	-243.7
	2.00	-15.4	464.1	173.1	-632.6	917.6	-368.8
	4.00	-16.5	466.8	175.2	-620.1	922.0	-376.7
	6.00	-15.8	463.1	174.0	-611.4	903.0	-335.8
	8.00	-15.6	460.7	173.7	-622.6	905.0	-232.6
	10.00	-17.9	461.8	178.8	-464.7	907.8	-394.5
	12.00	-19.0	461.5	182.7	-346.1	894.5	-512.6
	16.00	-16.7	458.6	182.9	-457.5	872.3	-452.7
	20.00	-17.3	458.8	186.3	-414.7	840.5	-453.8
	25.00	-16.5	454.4	187.2	-498.2	793.4	-425.7
	30.00	-17.8	449.2	190.6	-352.9	740.6	-620.5
	35.00	-13.7	447.0	189.0	-322.8	693.9	-540.4
	40.00	-4.6	442.5	184.5	-320.3	639.5	-464.5
	45.00	1.5	441.2	178.5	-311.3	567.6	-386.2

TABLE III-2. - CARGO CONTAINER NO. 2 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = $1.6 \times 10^{*6}$							
90.00	-5.00	-17.6	485.7	13.2	-511.8	50.8	-300.1
	-2.00	-13.9	485.3	13.9	-588.8	43.4	-297.3
	0.00	-17.4	486.3	16.7	-490.0	41.7	-341.5
	2.00	-13.9	487.0	16.7	-624.2	38.4	-377.9
	4.00	-16.3	489.9	17.5	-613.1	56.6	-330.8
	6.00	-15.9	488.8	19.9	-607.8	55.1	-356.9
	8.00	-15.0	486.6	19.3	-574.4	55.9	-200.5
	10.00	-15.1	486.3	23.0	-628.9	49.8	-465.0
	12.00	-13.0	485.0	22.3	-617.6	38.7	-458.9
	16.00	-13.4	489.3	23.1	-669.9	34.5	-426.1
	20.00	-15.9	488.5	22.8	-694.2	30.3	-376.8
	25.00	-12.3	485.3	24.2	-681.4	34.9	-470.6
	30.00	-12.8	484.4	27.3	-733.7	43.0	-645.5
	35.00	-9.6	487.7	23.4	-767.2	32.7	-606.3
	40.00	-8.4	487.0	22.5	-911.2	60.5	-545.9
	45.00	-2.3	481.4	20.6	-741.4	104.9	-461.1

REYNOLDS NUMBER = $1.6 \times 10^{*6}$

95.00	-5.00	-5.8	494.1	-42.3	-16.5	-237.1	21.0
	-2.00	-6.9	496.8	-40.2	59.9	-242.6	50.8
	0.00	-7.4	496.8	-38.9	-20.7	-237.9	41.8
	2.00	-7.2	499.0	-39.6	-24.0	-244.3	108.0
	4.00	-2.3	489.7	-37.2	9.3	-237.0	-41.1
	6.00	-5.0	499.5	-38.9	-22.9	-248.9	82.3
	8.00	-5.4	498.9	-34.9	-69.6	-237.1	-30.8
	10.00	-4.9	492.8	-35.1	-180.8	-236.4	-39.4
	12.00	-3.5	498.5	-33.3	-185.2	-245.6	-134.9
	16.00	-5.1	499.5	-33.7	-145.5	-229.3	-81.2
	20.00	-2.6	485.7	-32.4	-253.7	-213.9	-140.2
	25.00	-3.2	493.7	-32.9	-165.6	-200.4	-137.8
	30.00	-6.2	498.1	-31.7	-278.8	-184.7	-227.7
	35.00	-5.9	485.2	-32.9	-280.7	-170.8	-256.8
	40.00	-3.0	492.2	-39.1	-321.9	-153.0	-234.8
	45.00	3.5	494.1	-40.8	-341.8	-115.4	-325.6

TABLE IV-1. - CARGO CONTAINER NO. 3 - YAW ANGLE SWEEPS

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEFF.	DRAG FORCE COEFF.	SIDE FORCE COEFF.	PITCHING MOMENT COEFF.	YAWING MOMENT COEFF.	ROLLING MOMENT COEFF.
REYNOLDS NUMBER = 1.7 X 10 ⁵ #6							
0.00	0.00	-2.9	80.1	0.9	-73.5	14.0	7.0
	4.00	-3.2	80.8	-6.3	-64.4	1.6	-0.7
	8.00	-2.5	79.8	-16.0	-70.7	-13.2	-7.6
	12.00	-1.0	79.9	-24.4	-75.6	-34.4	19.8
	16.00	3.1	81.4	-24.2	-55.1	-48.4	30.6
	20.00	2.4	82.8	-20.8	-54.9	-50.5	16.1
	25.00	4.7	86.4	-17.3	-69.5	-41.5	18.5
	30.00	9.4	86.9	-14.7	-63.4	-25.7	18.4
	35.00	18.0	86.4	1.6	-38.5	-8.9	18.0
	40.00	14.9	89.8	1.1	-44.4	0.0	23.7
	45.00	11.9	89.0	2.3	-33.9	9.2	32.5
	50.00	10.6	88.0	3.5	-40.1	20.5	12.2
	60.00	4.7	83.2	10.1	-54.6	43.6	-17.1
	75.00	-0.0	71.9	16.0	-32.6	71.5	-9.7
	90.00	-1.5	71.3	-1.3	-39.3	10.4	-10.5
	95.00	0.4	71.6	-16.9	58.6	-19.3	51.5

REYNOLDS NUMBER = 1.8 X 10 ⁵ #6							
8.00	0.00	-12.3	78.4	1.1	-117.2	9.1	10.2
	4.00	-11.4	78.5	-8.1	-97.9	-7.3	-51.1
	8.00	-10.6	79.2	-14.8	-101.9	-22.0	-5.2
	12.00	-6.4	78.2	-14.1	-92.2	-41.0	2.6
	16.00	0.2	81.8	-11.5	-98.5	-50.0	-1.3
	20.00	7.6	85.1	-10.0	-82.5	-49.9	24.3
	25.00	13.3	88.3	-8.5	-97.5	-35.1	34.8
	30.00	15.4	91.2	-6.8	-69.5	-20.9	34.1
	35.00	13.2	90.5	-6.1	-64.3	-11.3	27.2
	40.00	16.3	90.2	-0.7	-32.2	-3.3	16.8
	45.00	15.4	90.3	0.8	-29.7	4.3	4.2
	50.00	9.7	90.6	2.2	-52.8	14.3	6.0
	60.00	3.1	85.2	11.3	-67.8	40.9	-18.0
	75.00	-0.0	74.4	1.1	-93.5	67.9	-8.8
	90.00	-2.9	72.7	-2.9	-46.1	6.5	-3.7
	95.00	-0.6	71.4	-15.4	42.7	-20.3	39.9

TABLE IV-1. - CARGO CONTAINER NO. 3 - YAW ANGLE SWEEPS (CONTINUED)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = $1.8 \times 10^{*6}$

16.00	0.00	-10.4	82.4	-1.3	-96.7	10.6	11.2
	4.00	-9.0	82.6	1.4	-108.9	-7.0	-5.5
	8.00	-5.1	83.3	1.1	-120.1	-19.4	-12.5
	12.00	-1.0	83.5	-1.8	-104.5	-38.5	0.7
	16.00	3.2	87.2	-2.7	-105.5	-44.4	-3.7
	20.00	5.3	90.0	-4.5	-109.0	-37.7	22.1
	25.00	8.9	92.6	-4.0	-97.7	-27.4	1.0
	30.00	10.2	93.4	-2.6	-91.0	-15.8	3.1
	35.00	10.1	93.0	-4.5	-69.7	-7.7	43.7
	40.00	9.8	92.9	-2.2	-69.1	-0.5	30.3
	45.00	9.8	91.1	-2.5	-59.2	5.8	29.5
	50.00	8.7	88.3	-0.8	-41.4	15.3	34.0
	60.00	6.4	82.3	7.5	-45.2	40.9	-27.6
	75.00	3.6	71.4	13.1	-42.6	66.4	-14.3
	90.00	-2.2	72.5	-5.5	-40.3	3.9	-8.2
	95.00	-0.4	72.0	-15.8	45.2	-21.1	38.9

REYNOLDS NUMBER = $1.8 \times 10^{*6}$

20.00	0.00	-6.0	85.3	-2.4	-100.0	10.6	24.8
	4.00	-4.9	85.5	1.7	-108.2	-4.3	6.4
	8.00	-2.1	87.0	2.8	-109.5	-15.2	18.5
	12.00	-0.9	87.2	3.9	-99.7	-26.5	-5.6
	16.00	3.8	88.3	-1.5	-94.6	-35.6	3.8
	20.00	5.4	91.9	-2.6	-97.7	-31.9	1.5
	25.00	8.9	94.9	-4.0	-95.8	-21.1	25.2
	30.00	9.3	94.8	-3.6	-97.1	-12.7	35.9
	35.00	9.1	93.2	-3.8	-82.8	-5.7	34.4
	40.00	10.2	91.7	-2.9	-61.8	-0.6	26.8
	45.00	8.7	90.2	-2.6	-56.1	5.0	17.6
	50.00	10.1	87.7	-3.9	-47.8	14.4	20.0
	60.00	9.7	80.8	1.2	-36.7	38.2	-19.0
	75.00	6.2	70.1	8.4	-59.1	67.9	-29.5
	90.00	-3.0	71.3	-8.5	-40.5	-0.9	-8.6
	95.00	-1.4	72.2	-16.8	47.0	-19.6	42.7

TABLE IV-2. - CARGO CONTAINER NO. 3 - PITCH ANGLE SWEEPS

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEFF.	DRAW FORCE COEFF.	SIDE FORCE COEFF.	PITCHING MOMENT COEFF.	YAWING MOMENT COEFF.	ROLLING MOMENT COEFF.
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REYNOLDS NUMBER = $1.8 \times 10^{*6}$

-4.00	-5.00	6.3	80.4	10.6	-62.8	21.1	-7.4
	-2.00	0.5	79.8	9.6	-66.0	20.9	-15.8
	0.00	-3.1	79.4	9.5	-62.3	19.9	-12.5
	2.00	-5.5	79.2	8.6	-76.4	20.8	-12.5
	4.00	-8.2	77.6	8.9	-82.4	20.7	-18.1
	6.00	-10.5	77.7	10.2	-104.7	23.7	-18.5
	8.00	-11.1	77.9	10.4	-119.6	26.3	-17.2
	10.00	-12.5	76.4	9.0	-97.6	25.4	10.1
	12.00	-12.1	78.1	5.1	-114.1	27.1	-2.7
	16.00	-9.2	82.9	-3.0	-105.8	27.3	10.4
	20.00	-4.5	86.4	-5.0	-94.7	25.6	16.5

REYNOLDS NUMBER = $1.8 \times 10^{*6}$

0.00	-5.00	5.1	81.9	2.0	-69.1	10.9	-10.4
	-2.00	0.3	81.3	1.4	-63.9	10.8	-3.6
	0.00	-3.0	80.4	1.8	-62.4	11.0	-10.8
	2.00	-5.8	79.8	1.7	-74.5	10.5	-1.4
	4.00	-9.0	79.4	1.5	-87.7	10.0	-9.3
	6.00	-11.1	78.7	0.9	-93.3	10.5	4.0
	8.00	-12.7	77.6	0.9	-94.1	10.0	-5.0
	10.00	-14.3	77.3	0.7	-94.4	9.5	7.7
	12.00	-16.3	78.9	0.6	-107.2	10.6	-25.2
	16.00	-10.0	82.4	-0.8	-101.4	11.0	2.7
	20.00	-6.1	84.9	-1.7	-96.1	10.6	19.7

TABLE IV-2. - CARGO CONTAINER NO. 3 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = $0.9 \times 10^{*6}$							
0.00	-5.00	2.9	81.5	5.1	-69.8	18.6	-37.2
	-2.00	-2.6	81.6	3.8	-76.1	17.6	-19.4
	0.00	-4.5	81.1	3.6	-86.0	14.0	-25.1
	2.00	-8.1	81.7	3.7	-82.7	14.4	-28.0
	4.00	-11.5	80.9	3.8	-73.4	15.4	-26.2
	6.00	-14.0	80.8	4.6	-81.2	15.5	-50.6
	8.00	-15.0	80.1	2.7	-94.3	14.6	-20.4
	10.00	-15.7	80.0	4.8	-82.5	14.6	-69.9
	12.00	-13.9	79.2	3.7	-120.8	14.7	-64.4
	16.00	-12.1	82.6	2.8	-108.6	15.1	-19.5
	20.00	-6.3	85.1	1.6	-118.2	17.2	-10.7

REYNOLDS NUMBER = $1.8 \times 10^{*6}$							
4.00	-5.00	7.2	80.5	-6.4	-64.8	1.1	2.0
	-2.00	1.1	80.5	-5.3	-76.4	1.1	-12.4
	0.00	-2.6	80.9	-5.9	-72.6	-0.3	5.5
	2.00	-4.9	80.1	-6.3	-83.1	-0.7	-3.2
	4.00	-7.8	79.7	-6.7	-84.7	-0.7	-5.8
	6.00	-10.7	79.0	-7.8	-89.0	-3.1	13.4
	8.00	-11.0	77.3	-8.9	-100.2	-5.7	4.7
	10.00	-12.3	77.9	-7.8	-105.6	-9.2	-8.8
	12.00	-10.7	78.3	-3.6	-106.7	-5.1	-2.0
	16.00	-8.6	83.1	0.1	-111.5	-5.9	11.5
	20.00	-4.4	85.9	0.9	-106.4	-2.6	14.2

TABLE IV-2. - CARGO CONTAINER NO. 3 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAW FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = 1.8 X 10**6							
8.00	-5.00	10.4	78.1	-16.9	-34.4	-35.4	10.4
	-2.00	2.2	80.4	-17.0	-73.0	-14.3	4.2
	0.00	-1.4	79.0	-16.6	-71.0	-14.1	3.7
	2.00	-5.7	79.8	-17.1	-70.5	-15.0	30.2
	4.00	-7.6	79.2	-16.9	-81.0	-15.4	13.0
	6.00	-9.9	78.0	-16.5	-99.4	-17.4	31.5
	8.00	-9.1	75.5	-15.6	-85.0	-21.9	17.8
	10.00	-7.9	75.9	-12.1	-100.6	-24.0	-0.0
	12.00	-6.8	78.6	-8.6	-115.4	-25.6	7.7
	16.00	-4.2	84.0	-0.0	-114.4	-16.6	10.9
	20.00	-0.8	87.3	1.5	-112.9	-13.9	13.7

REYNOLDS NUMBER = 1.8 X 10**6

12.00	-5.00	14.5	77.3	-23.9	-41.2	-36.0	17.8
	-2.00	4.5	80.3	-23.9	-81.2	-36.0	6.1
	0.00	1.3	79.8	-24.7	-70.1	-35.6	17.0
	2.00	-3.4	79.7	-23.1	-88.6	-36.1	24.3
	4.00	-5.8	78.8	-21.9	-75.0	-32.6	31.3
	6.00	-7.3	78.2	-19.1	-91.9	-33.1	18.3
	8.00	-5.7	77.4	-15.8	-98.5	-36.5	36.8
	10.00	-5.0	78.6	-11.2	-106.9	-39.2	17.0
	12.00	-2.9	80.5	-8.8	-108.2	-41.4	18.0
	16.00	-1.1	83.6	-2.6	-108.1	-36.9	34.5
	20.00	0.4	87.6	1.7	-103.2	-27.4	19.1

TABLE IV-2. - CARGO CONTAINER NO. 3 - PITCH ANGLE SWEEPS (CONTINUED)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = $1.8 \times 10^{*6}$							
16.00	-5.00	11.2	78.4	-22.9	-50.9	-48.9	26.8
	-2.00	6.9	81.1	-24.7	-32.9	-48.4	23.0
	0.00	0.6	81.8	-24.5	-61.4	-47.2	37.3
	2.00	-2.3	81.7	-23.4	-64.5	-46.2	40.1
	4.00	-1.2	79.8	-20.6	-71.7	-45.0	23.9
	6.00	-1.5	79.1	-16.1	-80.3	-46.6	14.2
	8.00	1.6	80.6	-11.5	-96.9	-49.4	-1.6
	10.00	0.3	82.5	-9.5	-104.3	-48.7	16.4
	12.00	-0.5	83.5	-9.4	-101.7	-48.2	24.4
	16.00	3.4	86.9	-5.0	-106.6	-43.9	19.5
	20.00	3.7	89.4	-3.1	-102.6	-35.5	16.5

REYNOLDS NUMBER = $1.8 \times 10^{*6}$

20.00	-5.00	8.0	80.8	-20.7	-51.3	-48.4	29.4
	-2.00	4.8	83.3	-21.7	-60.6	-49.7	28.9
	0.00	4.9	84.8	-21.3	-105.2	-50.6	17.3
	2.00	0.3	83.3	-19.7	-80.2	-52.6	41.2
	4.00	5.8	82.1	-15.5	-83.0	-49.9	30.6
	6.00	7.8	83.3	-12.8	-92.5	-50.2	40.1
	8.00	9.3	84.0	-10.4	-80.2	-50.0	22.7
	10.00	7.9	86.2	-9.2	-98.8	-47.3	10.4
	12.00	6.5	87.4	-8.2	-111.7	-44.5	4.5
	16.00	6.2	90.2	-4.8	-112.6	-37.8	-1.5
	20.00	5.7	91.6	-3.5	-91.2	-31.4	11.1

TABLE IV-2. - CARGO CONTAINER NO. 3 - PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAW FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = 1.8 X 10**6

25.00	-5.00	7.3	83.4	-17.1	-56.4	-38.9	30.1
	-2.00	8.5	84.3	-18.2	-58.9	-41.2	22.2
	0.00	4.6	86.3	-17.5	-72.4	-41.0	20.1
	2.00	-0.9	87.4	-17.7	-73.7	-42.4	13.6
	4.00	5.9	85.5	-12.5	-80.7	-40.8	29.3
	6.00	13.4	87.1	-10.4	-82.5	-38.6	37.3
	8.00	13.8	88.1	-9.9	-95.7	-35.4	24.2
	10.00	12.2	89.2	-10.0	-103.1	-33.6	32.4
	12.00	10.9	90.6	-8.8	-110.7	-31.2	25.6
	16.00	8.0	92.4	-6.8	-109.1	-28.3	54.9
	20.00	7.9	93.6	-4.5	-99.7	-22.1	28.4

REYNOLDS NUMBER = 1.8 X 10**6

30.00	-5.00	10.5	85.0	-14.4	-29.7	-24.4	18.5
	-2.00	10.9	86.0	-14.9	-58.9	-30.5	23.5
	0.00	9.3	87.7	-15.1	-60.6	-28.7	15.9
	2.00	10.5	88.0	-13.8	-70.8	-28.4	22.7
	4.00	15.9	87.4	-7.3	-75.8	-26.4	32.2
	6.00	15.5	89.0	-7.6	-75.8	-23.5	51.3
	8.00	16.5	90.5	-8.7	-79.9	-21.9	43.4
	10.00	15.3	91.1	-8.1	-92.4	-19.7	48.8
	12.00	12.8	91.5	-6.8	-99.0	-19.2	44.5
	16.00	10.3	93.1	-6.0	-98.3	-17.1	29.9
	20.00	9.7	94.0	-5.0	-75.9	-13.3	35.3

TABLE IV-2. - CARGO CONTAINER NO. 3 - PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = 1.8×10^6

45.00	-5.00	8.4	89.3	3.2	-53.2	11.3	18.1
	-2.00	9.9	88.8	2.7	-33.0	9.3	22.9
	0.00	12.3	87.5	1.7	-29.0	8.0	15.3
	2.00	14.2	89.0	1.3	-30.5	6.5	8.3
	4.00	15.6	89.3	-0.0	-26.3	4.8	18.5
	6.00	15.0	90.5	0.3	-34.4	5.8	26.1
	8.00	15.6	90.4	-1.2	-37.4	5.9	10.2
	10.00	14.9	91.2	-3.6	-43.2	5.7	13.9
	12.00	12.3	91.1	-4.9	-48.1	5.8	39.1
	16.00	11.2	91.8	-5.4	-59.7	6.6	25.3
	20.00	10.3	91.1	-5.0	-59.7	5.8	32.9

REYNOLDS NUMBER = 1.8×10^6

60.00	-5.00	4.8	81.8	9.6	-45.8	45.8	-5.8
	-2.00	5.1	82.1	9.2	-41.9	43.0	-9.5
	0.00	3.5	83.5	9.0	-47.4	42.3	2.6
	2.00	3.0	83.6	9.7	-51.6	42.7	-12.7
	4.00	2.2	83.9	10.3	-50.4	41.5	-19.5
	6.00	2.9	84.2	9.9	-60.8	40.8	-6.0
	8.00	3.3	84.4	10.2	-60.1	41.6	-32.5
	10.00	3.7	83.9	10.3	-59.5	39.4	-38.6
	12.00	3.6	84.1	9.7	-52.9	40.9	-0.7
	16.00	5.9	82.8	6.4	-49.9	40.5	11.8
	20.00	9.3	80.2	0.8	-36.7	37.4	1.4

TABLE IV-2. - CARGO CONTAINER NO. 3 - PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
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REYNOLDS NUMBER = 1.8 X 10**6

75.00	-5.00	1.8	71.9	14.5	-52.7	74.4	-12.5
	-2.00	2.8	72.1	13.3	-49.4	72.6	-4.7
	0.00	1.0	72.7	15.2	-51.3	71.9	-9.3
	2.00	0.9	73.1	15.4	-51.8	70.4	-1.2
	4.00	-0.0	73.4	16.6	-57.6	70.4	-2.8
	6.00	0.7	72.3	15.8	-43.8	70.1	-15.4
	8.00	2.9	71.6	13.8	-55.0	68.4	-1.5
	10.00	1.1	72.2	15.0	-54.6	68.8	-1.8
	12.00	0.5	72.4	15.9	-60.5	68.6	-4.0
	16.00	3.2	70.4	11.3	-43.1	70.0	-7.9
	20.00	6.1	68.7	6.3	-34.6	69.5	-7.7

REYNOLDS NUMBER = 1.8 X 10**6

90.00	-5.00	-2.9	72.1	-3.1	-46.5	11.1	8.3
	-2.00	-3.6	71.9	-2.0	-41.1	11.4	10.4
	0.00	-4.0	72.1	-0.9	-58.1	12.7	18.3
	2.00	-3.2	72.5	-1.3	-50.5	11.6	0.3
	4.00	-3.3	72.4	-1.3	-43.0	10.8	4.3
	6.00	-3.3	71.8	-2.5	-43.0	9.6	14.1
	8.00	-2.9	72.5	-2.4	-45.5	9.1	10.3
	10.00	-2.3	71.8	-3.2	-45.4	8.3	-2.8
	12.00	-1.4	72.2	-5.1	-55.6	7.1	4.9
	16.00	-1.7	71.4	-6.4	-46.8	4.9	-0.7
	20.00	-3.1	71.5	-8.4	-49.2	0.0	-1.4

TABLE IV-2. - CARGO CONTAINER NO. 3 - PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
REYNOLDS NUMBER = 1.8 X 10 ⁶							
95.00	-5.00	0.7	72.5	-18.3	40.8	-16.3	52.1
	-2.00	1.0	71.7	-17.8	35.0	-18.5	45.3
	0.00	0.5	71.2	-17.9	41.9	-19.9	41.8
	2.00	-0.0	71.6	-17.6	35.8	-20.0	60.4
	4.00	-0.4	71.4	-17.0	36.0	-19.4	42.5
	6.00	-0.4	71.5	-16.6	38.4	-20.9	38.1
	8.00	-0.6	70.7	-16.3	39.0	-19.7	46.4
	10.00	-0.7	70.7	-16.2	26.7	-20.0	51.6
	12.00	-1.1	70.5	-15.6	42.8	-18.9	44.0
	16.00	-1.0	71.4	-16.1	33.6	-19.2	41.2
	20.00	-1.7	72.5	-16.4	41.6	-19.1	34.2

TABLE V-1. - CARGO CONTAINER NO. 1 STRUT INTERFERENCE TARE INCREMENTS -
YAW ANGLE SWEEPS

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
-5.00	0.00	2.4	2.5	-0.6	-29.5	1.0	-21.3
	4.00	1.9	2.1	0.3	-19.6	-7.0	27.9
	8.00	1.3	2.8	0.7	-58.7	12.2	14.6
	12.00	3.8	4.9	4.4	-41.5	41.6	27.4
	16.00	15.5	4.5	5.2	45.3	69.6	-65.1
	20.00	10.9	2.3	5.4	6.6	53.5	12.9
	25.00	16.5	1.7	7.9	66.5	53.5	17.1
	30.00	13.7	2.0	9.6	67.9	56.4	21.1
	35.00	14.8	2.5	11.1	0.9	59.3	-6.7
	40.00	11.0	4.5	11.1	-0.6	46.5	-21.5
	45.00	6.4	5.6	7.5	12.6	29.4	-3.0
	50.00	5.0	5.4	6.6	-39.1	20.3	36.3
	60.00	-3.3	3.8	1.4	-62.9	6.0	12.1
	75.00	-15.9	3.8	1.1	-33.2	1.3	8.4
	90.00	-9.2	8.3	-3.1	-12.5	-6.3	15.1

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STRUT/PITCH LINK INTERFERENCE TARE

0.00	0.00	-1.2	4.2	-2.0	-30.7	0.3	-17.9
	4.00	1.5	2.5	-0.1	-2.8	11.3	-42.0
	8.00	3.8	1.0	1.5	4.1	33.8	8.9
	12.00	5.3	3.5	4.4	52.9	50.4	9.8
	16.00	4.7	2.4	2.8	39.4	43.7	13.9
	20.00	3.0	2.4	2.5	56.0	45.1	-22.2
	25.00	10.0	0.8	-1.6	82.5	39.0	-13.6
	30.00	11.4	6.7	12.2	90.5	51.2	37.0
	35.00	11.7	3.9	10.1	11.8	47.3	-38.2
	40.00	10.8	6.5	11.6	33.6	44.3	7.0
	45.00	3.7	4.2	7.6	33.0	27.4	45.7
	50.00	13.1	2.1	3.4	5.3	22.2	5.8
	60.00	-5.1	4.8	2.5	0.8	5.8	10.8
	75.00	-14.8	3.6	4.7	-6.2	1.7	63.6
	90.00	-12.0	7.8	-4.6	-76.4	-9.6	-55.2

TABLE V-1. - CARGO CONTAINER NO. 1 STRUT INTERFERENCE TARE INCREMENTS -
YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
STRUT/PITCH LINK INTERFERENCE TARE							
4.00	0.00	-0.3	2.4	-1.3	26.3	1.8	1.8
	4.00	0.3	1.8	1.4	17.9	15.6	-5.6
	8.00	0.7	4.2	3.0	74.1	31.7	13.1
	12.00	1.9	5.7	3.7	94.6	29.1	-30.3
	16.00	4.3	4.3	2.0	92.0	28.6	-15.6
	20.00	4.7	3.1	4.7	94.9	33.0	45.4
	25.00	7.1	2.9	3.3	90.0	30.4	-24.0
	30.00	5.9	5.3	4.2	110.5	24.5	-25.5
	35.00	5.9	5.8	6.8	68.6	31.6	-36.9
	40.00	12.6	10.2	9.0	52.2	42.3	-42.3
	45.00	11.6	7.9	7.6	32.4	27.1	-22.2
	50.00	10.0	3.1	4.7	-20.9	12.6	-20.9
	60.00	-7.0	1.6	1.5	-22.7	7.7	-23.5
	75.00	-20.3	-0.4	5.5	-47.2	2.7	56.6
	90.00	-8.2	10.7	-2.0	19.2	-10.8	37.7

STRUT/PITCH LINK INTERFERENCE TARE

8.00	0.00	-2.1	3.2	-1.9	49.7	-2.0	7.5
	4.00	-0.5	2.7	1.9	47.3	15.7	-11.8
	8.00	0.3	1.4	2.5	65.7	18.0	-1.2
	12.00	2.9	3.5	3.1	94.5	14.7	19.3
	16.00	-0.7	4.2	3.5	95.4	21.4	33.5
	20.00	2.2	5.6	4.2	72.4	27.3	10.8
	25.00	3.7	5.5	1.9	84.3	12.8	-18.5
	30.00	5.3	6.4	1.1	102.5	4.9	-32.0
	35.00	9.3	6.0	2.4	72.8	-10.1	-16.2
	40.00	12.8	9.0	3.0	61.8	-11.2	11.5
	45.00	11.5	9.4	4.5	16.9	-8.7	-48.1
	50.00	8.5	9.0	5.8	-20.1	-1.1	21.0
	60.00	-5.2	1.1	2.3	-53.2	17.7	-24.8
	75.00	-20.5	3.5	8.7	-1.3	8.9	56.3
	90.00	-13.2	10.9	-2.2	38.8	-10.4	-16.5

TABLE V-1. - CARGO CONTAINER NO. 1 STRUT INTERFERENCE TARE INCREMENTS -
YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
12.00	0.00	-2.1	1.9	-1.7	33.0	-4.5	0.8
	4.00	-2.8	1.0	0.7	65.8	6.1	-34.4
	8.00	-3.1	2.1	2.3	90.5	16.3	-37.2
	12.00	-2.6	4.4	4.3	125.5	23.0	13.3
	16.00	-0.2	6.0	5.8	88.4	25.1	43.6
	20.00	0.2	4.6	3.3	95.7	20.8	9.5
	25.00	1.7	6.2	5.1	88.9	22.6	-20.2
	30.00	4.0	7.3	3.7	98.6	9.4	-5.9
	35.00	8.9	8.0	3.1	92.5	6.3	-10.5
	40.00	11.9	10.3	3.9	38.4	3.6	-5.4
14.00	45.00	10.9	13.0	4.7	27.7	0.1	-57.2
	50.00	11.4	9.9	3.7	5.0	0.5	-27.1
	55.00	-5.5	2.2	3.4	-34.4	6.7	-15.6
	75.00	-18.7	-1.2	7.4	-15.9	-1.8	-5.1
	90.00	-8.8	5.8	-2.0	-19.6	-7.6	7.9

STRUT/PITCH LINK INTERFERENCE TARE

STRUT/PITCH LINK INTERFERENCE TARE

20.00	0.00	-0.6	0.3	-0.6	78.3	-4.5	4.7
	4.00	-3.9	2.1	1.5	105.0	6.1	-10.4
	8.00	-4.2	0.4	1.5	107.1	10.9	5.5
	12.00	-4.4	0.1	1.3	92.6	7.4	-36.4
	16.00	-3.3	1.1	1.4	101.1	28.5	-45.8
	20.00	-4.6	3.1	3.0	138.6	22.6	21.0
	25.00	-3.4	6.0	2.9	94.8	18.0	-43.8
	30.00	0.0	6.4	4.9	107.4	14.3	12.0
	35.00	3.0	10.4	3.3	97.0	11.2	-20.3
	40.00	6.9	8.6	3.3	96.3	12.1	-19.5
25.00	45.00	7.1	12.9	3.5	47.7	8.9	29.1
	50.00	8.2	9.6	4.1	42.2	7.2	24.9
	60.00	6.6	9.4	2.4	26.5	6.3	-72.4
	75.00	-26.0	-5.1	11.7	-128.2	0.3	36.7
	90.00	-9.7	8.6	-3.8	78.1	-8.8	-24.7

TABLE V-2. - CARGO CONTAINER NO. 1 STRUT INTERFERENCE TARE INCREMENTS -
PITCH ANGLE SWEEPS

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
STRUT (W/O PITCH LINK) INTERFERENCE TARE							
0.00	45.00	-1.9	-2.2	1.0	75.1	-1.7	10.9
	40.00	-5.5	-4.3	1.7	43.0	0.7	29.3
	35.00	-5.1	-1.1	-1.5	89.3	-1.6	-4.2
	30.00	-4.4	0.3	-1.7	82.1	0.2	-8.4
	25.00	-4.9	0.7	-1.1	67.7	-2.1	19.7
	20.00	-2.0	1.7	-2.1	70.6	-2.5	-28.1
	16.00	-1.4	0.6	-0.9	57.1	-2.6	-38.7
	12.00	-3.2	2.6	-2.6	61.9	0.4	-44.7
	8.00	-1.1	4.4	-1.9	45.9	1.6	-16.0
	4.00	-0.2	3.2	-0.8	22.4	-0.3	-7.7
	0.00	0.6	3.2	-2.1	-5.3	4.1	-34.3

STRUT (W/O PITCH LINK) INTERFERENCE TARE

16.00	45.00	-0.1	-3.4	-9.2	80.8	-5.1	-95.9
	40.00	-4.5	-8.5	-14.3	-12.0	-20.0	-56.3
	35.00	-1.0	-6.7	-14.0	89.6	-29.1	-41.2
	30.00	-6.1	-3.8	-2.3	62.1	-14.8	-16.0
	25.00	-8.0	-0.8	1.7	78.0	-4.0	-3.1
	20.00	-3.7	1.1	5.1	73.5	28.7	21.8
	16.00	-3.5	2.1	4.9	67.5	26.5	54.7
	12.00	-2.7	2.3	3.4	55.5	27.2	-2.5
	8.00	1.2	1.7	0.7	89.0	1.5	-9.8
	4.00	2.9	1.7	1.9	53.4	19.0	31.1
	0.00	2.5	2.0	4.1	35.2	40.0	5.2

TABLE V-2. - CARGO CONTAINER NO. 1 STRUT INTERFERENCE TARE INCREMENTS -
PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
STRUT (W/O PITCH LINK) INTERFERENCE TARE							
30.00	45.00	-4.5	-6.1	-0.6	49.6	1.9	-4.8
	40.00	-3.6	-7.4	-1.7	39.3	1.1	-44.9
	35.00	-3.4	-0.4	2.6	72.5	10.0	-65.7
	30.00	-6.0	1.5	-0.0	118.2	1.6	-62.6
	25.00	-1.9	5.5	1.8	115.9	7.1	-29.0
	20.00	-2.3	4.4	3.6	59.7	11.3	60.0
	16.00	-1.6	5.2	3.9	74.7	11.9	11.5
	12.00	7.4	3.7	2.3	67.8	11.0	-21.5
	8.00	5.4	3.7	1.2	70.4	3.3	-24.6
	4.00	2.8	4.5	6.8	93.3	28.2	24.3
	0.00	8.8	2.7	8.4	75.8	40.3	-44.8
	-5.00	15.0	1.4	7.7	45.7	49.9	16.6

STRUT (W/O PITCH LINK) INTERFERENCE TARE

45.00	45.00	-3.2	-2.6	3.7	90.5	-8.1	-35.5
	40.00	2.2	-0.0	5.1	34.8	-6.0	-38.8
	35.00	0.5	5.8	2.5	11.9	-2.2	-13.9
	30.00	1.3	1.5	0.6	51.3	-2.5	16.6
	25.00	2.4	5.5	3.1	40.7	2.8	-25.1
	20.00	2.3	9.8	4.7	80.4	10.6	19.3
	16.00	2.5	8.9	3.8	60.1	13.9	-27.0
	12.00	5.2	7.0	4.4	75.0	1.4	-32.6
	8.00	8.6	6.5	2.7	29.8	-9.5	-32.9
	4.00	6.8	6.5	7.7	41.1	28.4	13.5
	0.00	6.4	8.4	11.1	43.6	27.2	61.0
	-5.00	9.0	2.1	6.5	-7.3	23.6	9.2

TABLE VI-1. - CARGO CONTAINER NO. 2 STRUT INTERFERENCE TARE INCREMENTS -
YAW ANGLE SWEEPS

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
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STRUT/PITCH LINK INTERFERENCE TARE

-5.00	0.00	-0.1	1.8	-1.4	55.8	-8.4	44.4
	4.00	4.8	2.9	4.2	48.4	-31.7	20.3
	8.00	1.8	1.1	5.6	76.7	-20.4	114.8
	12.00	1.8	0.5	7.9	94.6	9.5	227.8
	16.00	14.6	1.2	7.2	178.1	44.4	-6.7
	20.00	16.3	0.4	5.7	108.0	69.2	12.0
	25.00	14.6	-4.4	6.3	64.6	79.3	-90.2
	30.00	38.4	-6.1	15.1	25.5	41.3	121.3
	35.00	44.6	-2.3	1.8	13.9	-10.1	25.5
	40.00	33.3	-1.2	3.1	135.3	-19.4	-64.3
	45.00	20.4	6.0	5.1	208.6	3.9	-137.2
	50.00	11.4	4.9	8.2	69.2	-21.8	48.9
	60.00	2.4	3.7	1.6	25.2	-49.5	23.8
	75.00	-15.4	14.2	6.6	56.4	55.1	118.5

STRUT/PITCH LINK INTERFERENCE TARE

0.00	0.00	-2.8	3.6	-2.6	109.2	1.1	-19.7
	4.00	-2.2	4.1	4.3	107.0	14.9	17.1
	8.00	-3.7	3.2	10.9	107.0	43.2	115.5
	12.00	1.9	3.3	12.1	106.2	60.7	206.1
	16.00	7.7	5.0	10.5	145.4	81.5	31.9
	20.00	23.9	6.0	12.9	182.8	113.1	59.3
	25.00	29.7	7.7	14.1	182.9	144.1	92.0
	30.00	41.4	4.8	2.9	216.9	210.3	-183.3
	35.00	14.2	-3.7	1.2	275.9	208.5	20.4
	40.00	32.9	0.5	-0.8	317.3	154.6	-151.6
	45.00	26.1	4.8	7.3	237.9	87.8	-26.7
	50.00	18.5	53.4	37.1	332.9	218.9	181.1
	60.00	-14.9	14.4	9.2	619.5	37.7	64.1
	75.00	-13.9	14.7	10.4	33.6	56.7	146.4

TABLE VI-1. - CARGO CONTAINER NO. 2 STRUT INTERFERENCE TARE INCREMENTS -
YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
STRUT (W/O PITCH LINK) INTERFERENCE TARE							
0.00	0.00	-2.0	3.5	-2.0	87.1	-0.3	-28.5
	4.00	0.0	3.6	2.5	102.2	20.8	-21.0
	8.00	0.8	2.5	9.4	88.5	41.0	119.0
	12.00	2.9	0.9	6.8	132.4	51.7	68.1
	16.00	8.8	2.9	11.4	141.2	83.3	95.8
	20.00	23.4	5.1	10.5	130.5	104.7	32.0
	25.00	28.6	4.6	7.0	157.5	124.6	101.7
	30.00	43.2	1.9	1.6	195.2	162.8	-175.2
	35.00	24.9	-1.6	6.8	217.2	197.0	122.1
	40.00	25.6	2.3	2.1	252.2	164.2	-107.3
	45.00	30.3	6.7	11.7	279.5	100.5	83.8
	50.00	23.1	10.4	15.7	121.0	72.7	154.3
	55.00	-4.2	8.4	2.7	582.8	21.1	-61.9
	75.00	-6.9	8.2	4.0	47.8	27.6	131.0

STRUT/PITCH LINK INTERFERENCE TARE

4.00	0.00	-5.3	2.4	-2.7	127.2	-12.6	-54.0
	4.00	-3.2	2.9	-0.4	154.1	29.9	-117.3
	8.00	-0.0	6.8	7.7	167.8	61.1	40.2
	12.00	4.0	6.6	8.2	166.3	92.8	-27.0
	16.00	10.7	8.0	9.6	117.0	105.5	36.7
	20.00	17.1	6.6	6.7	164.1	94.1	-67.9
	25.00	21.9	12.4	15.1	48.3	90.9	-168.8
	30.00	30.1	16.5	17.4	172.4	56.5	-146.8
	35.00	30.4	20.3	14.3	227.4	38.7	-159.6
	40.00	19.3	11.2	5.1	196.9	56.1	-19.6
	45.00	-0.8	5.2	-4.2	153.8	4.6	-398.0
	50.00	-9.3	5.5	4.2	58.6	-5.4	-62.2
	60.00	4.6	14.2	9.2	-37.3	18.6	5.8
	75.00	-16.8	12.2	5.4	81.0	26.8	50.1

TABLE VI-1. - CARGO CONTAINER NO. 2 STRUT INTERFERENCE TARE INCREMENTS -
YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
STRUT/PITCH LINK INTERFERENCE TARE							
8.00	0.00	-3.2	1.4	-2.6	154.8	-16.5	-3.5
	4.00	-1.7	2.6	2.1	146.4	35.7	37.6
	8.00	-5.2	3.2	5.6	214.7	76.1	45.5
	12.00	-3.5	4.0	10.8	172.5	93.6	236.7
	16.00	-1.3	5.8	1.3	167.4	74.9	-104.0
	20.00	4.7	9.5	7.8	228.8	76.7	-21.8
	25.00	24.6	12.7	14.3	159.2	85.3	-122.3
	30.00	30.1	19.8	21.3	241.2	119.7	130.2
	35.00	43.1	21.9	20.7	128.9	108.3	-69.3
	40.00	33.9	19.5	13.9	195.4	134.0	-74.3
	45.00	18.6	14.2	7.8	128.2	78.2	-187.8
	50.00	-0.2	12.6	10.8	136.3	62.1	-5.5
	60.00	-14.1	13.3	11.2	53.1	-4.4	132.4
	75.00	-22.8	8.2	7.7	84.4	5.6	167.8

STRUT (W/O PITCH LINK) INTERFERENCE TARE

8.00	0.00	-0.9	2.3	-2.4	127.4	-5.8	38.9
	4.00	2.5	2.2	2.6	177.9	33.5	-7.5
	8.00	-5.6	2.3	4.3	174.5	69.4	13.8
	12.00	-5.8	4.3	9.1	137.6	82.9	150.8
	16.00	-3.0	4.7	2.3	127.1	69.3	-71.7
	20.00	-1.1	4.1	5.0	161.2	66.7	-3.2
	25.00	12.0	8.2	4.2	174.6	76.7	-267.6
	30.00	17.2	15.3	20.0	171.7	108.4	243.5
	35.00	24.3	14.6	16.6	171.9	92.7	-90.8
	40.00	15.8	11.7	11.6	200.8	114.8	-14.1
	45.00	14.9	11.5	8.5	139.1	58.8	-90.3
	50.00	8.9	9.4	11.1	-19.7	44.7	40.2
	60.00	-3.1	11.3	3.4	109.7	12.9	-75.7
	75.00	-18.7	10.6	4.2	162.1	23.0	182.7

TABLE VI-1. - CARGO CONTAINER NO. 2 STRUT INTERFERENCE TARE INCREMENTS -
YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
12.00	0.00	-3.4	0.8	-0.9	187.6	-1.5	-68.6
	4.00	-6.2	0.3	1.6	258.0	48.8	-56.3
	8.00	-4.4	1.1	5.2	255.3	82.9	75.6
	12.00	-1.6	6.7	6.6	215.9	86.6	-85.9
	16.00	-2.9	8.8	4.5	213.5	98.0	-72.2
	20.00	2.2	10.8	7.0	258.2	86.3	-47.1
	25.00	-0.5	14.0	7.6	287.2	97.2	-157.6
	30.00	18.7	15.7	15.9	189.2	140.7	-3.5
	35.00	31.6	22.4	10.8	58.9	132.3	-82.8
	40.00	52.0	21.1	12.2	71.1	167.1	-50.5
	45.00	37.8	26.3	18.2	41.5	170.8	145.9
	50.00	0.4	17.3	10.0	258.4	72.6	-48.8
	60.00	-23.3	16.0	12.4	-7.0	-8.6	183.0
	75.00	-21.2	9.4	6.9	-65.3	22.5	37.2

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STRUT/PITCH LINK INTERFERENCE TARE

20.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0
	0.00	0.0	0.0	0.0	0.0	0.0	0.0
	0.00	-5.3	-4.8	6.9	235.8	16.5	56.0
	8.00	-7.6	-2.6	-0.1	291.6	30.5	-111.9
	16.00	-4.2	4.7	9.4	206.9	80.3	219.5
	20.00	-7.6	5.5	3.9	259.7	85.4	-35.9
	25.00	0.5	5.9	4.2	313.9	85.7	83.8
	30.00	-5.5	9.3	1.4	297.2	75.1	23.0
	35.00	-12.7	12.0	-0.3	334.0	18.6	248.6
	40.00	7.5	14.9	1.4	62.6	-13.9	-89.1
	45.00	34.8	30.9	8.8	-55.1	24.9	91.2
	50.00	43.3	31.7	7.5	23.8	161.6	266.0
	60.00	-14.8	5.5	7.0	-132.2	5.1	-102.4
	75.00	-23.4	4.7	6.1	26.6	4.6	-198.7

TABLE VI-2. - CARGO CONTAINER NO. 2 STRUT INTERFERENCE TARE INCREMENTS -
PITCH ANGLE SWEEPS

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
STRUT (W/O PITCH LINK) INTERFERENCE TARE							
0.00	45.00	-15.4	-15.8	-1.4	410.1	1.2	102.3
	40.00	-6.0	-13.5	-2.0	347.4	4.4	-58.1
	35.00	-7.5	-10.0	-3.3	260.6	23.7	-59.7
	30.00	-5.2	-3.9	-3.2	341.5	-1.0	-206.6
	25.00	-8.7	-4.7	-7.7	212.8	6.4	-108.8
	20.00	-9.8	-2.3	-2.5	199.9	5.6	94.4
	16.00	-4.6	-1.2	-2.4	182.2	9.1	9.5
	12.00	-5.4	0.2	-1.3	195.4	-1.8	49.0
	8.00	0.2	0.9	-4.7	103.6	-6.5	-143.3
	4.00	-1.1	3.1	-1.7	99.3	-5.6	-6.2
	0.00	-2.6	2.9	-4.4	62.0	5.3	-109.9
	-5.00	-0.4	0.7	-6.3	16.2	-5.4	22.6

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STRUT (W/O PITCH LINK) INTERFERENCE TARE

16.00	45.00	-19.2	-17.9	-8.1	253.2	-59.9	-105.8
	40.00	-11.4	-13.6	-2.3	161.2	-44.6	-213.6
	35.00	-12.6	-6.3	-0.6	243.2	-4.7	-42.5
	30.00	-9.5	-2.8	-3.3	279.6	30.2	-23.2
	25.00	-10.1	-1.4	-3.8	304.6	28.2	-208.2
	20.00	-8.0	0.3	-0.0	209.4	50.9	-5.1
	16.00	-4.5	2.2	3.5	215.7	63.0	-14.1
	12.00	-5.7	4.2	0.8	175.8	65.0	-147.8
	8.00	-1.3	5.0	2.1	202.5	75.5	-59.5
	4.00	-1.6	1.5	-0.2	232.0	69.6	54.7
	0.00	9.3	2.9	5.0	159.9	62.0	31.0
	-5.00	11.3	1.5	5.5	121.2	38.4	-15.4

TABLE VI-2. - CARGO CONTAINER NO. 2 STRUT INTERFERENCE TARE INCREMENTS -
PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
STRUT (W/O PITCH LINK) INTERFERENCE TARE							
30.00	45.00	-11.1	-17.5	1.9	307.7	-16.2	-159.6
	40.00	1.2	-6.0	7.5	368.3	22.0	-98.5
	35.00	-7.6	-7.5	6.1	179.0	30.9	38.2
	30.00	-2.7	4.9	7.9	167.6	55.5	210.8
	25.00	-0.3	4.2	1.0	251.2	35.8	-32.4
	20.00	-3.3	6.5	1.5	268.6	65.3	-8.6
	16.00	6.7	4.4	2.9	159.5	61.1	11.9
	12.00	10.3	9.2	4.9	132.1	76.6	-72.6
	8.00	19.3	17.2	9.4	255.6	77.4	-83.5
	4.00	22.3	10.1	13.0	47.4	48.3	-171.4
	0.00	25.4	2.3	0.3	140.1	161.7	-71.1
	-5.00	17.7	-0.3	5.7	34.6	66.2	-34.4

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STRUT (W/O PITCH LINK) INTERFERENCE TARE							
45.00	45.00	-14.5	-7.0	13.1	310.0	25.0	0.8
	40.00	-1.3	3.1	8.3	137.2	12.8	-155.8
	35.00	1.7	3.5	8.1	163.6	2.3	-29.0
	30.00	1.9	7.8	5.4	125.1	-1.7	45.8
	25.00	8.8	11.1	10.2	109.5	11.9	76.3
	20.00	9.2	13.6	5.3	131.4	51.2	-105.9
	16.00	14.3	13.0	11.1	126.5	165.1	93.5
	12.00	11.2	14.5	16.1	135.0	123.4	33.4
	8.00	6.6	12.6	10.5	173.4	94.7	-47.6
	4.00	0.9	11.5	7.1	119.2	26.4	33.9
	0.00	12.9	-4.4	7.8	79.7	97.6	58.0
	-5.00	13.0	4.0	5.4	-191.2	26.9	-11.7

TABLE VI-2. - CARGO CONTAINER NO. 2 STRUT INTERFERENCE TARE INCREMENTS -
PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	STRUT (W/O PITCH LINK) INTERFERENCE TARE							
		DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.		
60.00	45.00	33.7	29.7	-13.3	-69.3	32.3	-81.3		
	40.00	26.3	24.4	-15.0	-106.4	31.7	-212.3		
	35.00	19.5	18.3	-6.1	-6.0	26.3	-104.0		
	30.00	5.8	12.3	-0.2	29.3	17.9	-244.9		
	25.00	-3.5	3.0	0.7	-37.8	-2.4	-173.4		
	20.00	-14.1	4.2	0.0	-64.5	-6.0	-28.2		
	16.00	-11.8	8.4	5.3	-16.8	-2.6	130.5		
	12.00	-8.4	8.4	3.3	25.4	7.9	-31.1		
	8.00	-3.9	11.3	10.1	8.7	24.8	199.3		
	4.00	0.4	9.2	7.4	-39.6	23.0	46.7		
	0.00	2.6	5.4	2.6	18.4	3.9	69.8		
	-5.00	-6.0	7.5	4.5	-154.0	-17.0	88.4		

TABLE VII-1. - CARGO CONTAINER NO. 3 STRUT INTERFERENCE YARE INCREMENTS -
YAW ANGLE SWEEPS

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
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STRUT/PITCH LINK INTERFERENCE YARE

-5.00	0.00	-4.9	2.0	-0.3	15.8	-0.3	12.4
	4.00	-3.7	2.0	-1.3	0.2	-1.9	21.1
	8.00	-1.9	2.4	-4.7	-10.3	-7.0	-10.3
	12.00	-2.2	0.7	-1.4	-24.5	-5.9	7.1
	16.00	-6.2	2.0	-1.9	10.4	-5.9	-8.5
	20.00	1.3	1.7	-0.3	-29.7	-4.3	9.4
	25.00	5.1	1.3	-0.8	-10.6	-4.8	5.1
	30.00	3.3	2.5	-1.3	10.0	-5.9	19.9
	35.00	5.6	4.0	4.3	-33.5	-5.2	40.4
	40.00	5.1	4.9	2.0	32.3	-4.5	26.1
	45.00	3.5	4.3	2.2	2.6	-5.4	35.3
	50.00	3.3	3.6	2.5	6.0	-2.8	21.3
	60.00	3.8	-0.1	1.2	-7.9	-3.8	10.7
	75.00	3.7	1.5	-13.0	7.9	-3.9	1.5

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STRUT/PITCH LINK INTERFERENCE YARE

0.00	0.00	-1.3	1.1	-1.3	-4.4	0.3	-14.4
	8.00	-5.2	1.2	-1.2	5.8	-6.6	18.3
	12.00	-4.2	1.4	-1.8	-14.9	-4.3	-2.6
	16.00	-3.8	2.0	0.5	-5.3	-4.2	10.4
	20.00	1.1	2.5	1.4	0.9	-4.9	27.1
	25.00	6.0	3.3	2.3	14.7	-5.2	-25.5
	30.00	7.2	3.3	1.6	3.4	-3.6	10.2
	35.00	7.1	6.7	1.4	12.6	-1.7	16.4
	40.00	5.4	4.2	-0.3	22.2	-2.9	4.0
	45.00	3.9	5.2	-0.4	28.7	-4.9	22.8
	50.00	4.5	4.0	0.4	20.2	-7.0	16.1
	60.00	2.6	2.8	1.1	18.0	-4.3	15.5
	75.00	7.3	-0.4	-8.2	-22.0	-0.4	-10.3

TABLE VII-1. - CARGO CONTAINER NO. 3 STRUT INTERFERENCE TARE INCREMENTS -
YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
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STRUT (W/O PITCH LINK) INTERFERENCE TARE

0.00	0.00	-3.3	1.0	0.2	-7.2	1.1	8.1
	4.00	-1.3	0.7	-0.5	-5.4	-2.3	-15.3
	8.00	-3.3	0.3	-1.3	-7.0	-6.4	22.7
	12.00	-5.5	1.0	-0.8	12.2	-5.4	-3.7
	16.00	-3.1	1.4	2.1	0.9	-6.1	-15.6
	20.00	-0.6	1.4	4.8	-5.0	-3.8	18.1
	25.00	2.6	2.3	5.6	-0.4	-1.9	-0.7
	30.00	4.5	4.3	3.5	18.3	-1.8	16.4
	35.00	4.8	5.4	1.6	-25.7	-1.0	13.6
	40.00	1.4	1.6	-0.6	-9.0	-1.7	7.6
	45.00	1.8	4.4	-1.4	6.8	-3.5	-21.4
	50.00	1.6	3.1	-0.5	8.3	-5.8	-3.7
	60.00	1.2	3.2	1.0	14.5	-3.5	8.0
	75.00	1.0	0.9	-2.7	-33.2	1.9	-0.1

STRUT/PITCH LINK INTERFERENCE TARE

4.00	0.00	-2.3	2.2	-0.6	-5.1	0.9	-20.3
	4.00	-2.3	1.3	-0.3	-10.7	-3.0	4.6
	8.00	-4.6	2.6	-1.8	-8.7	-4.7	28.4
	12.00	-0.7	1.2	0.7	-18.4	-3.4	3.5
	16.00	3.5	0.9	1.3	-21.3	-2.3	7.1
	20.00	9.1	2.8	1.6	-3.7	-3.3	-14.4
	25.00	8.2	2.8	3.5	-7.1	-0.7	41.8
	30.00	11.3	5.1	5.6	5.9	0.1	34.2
	35.00	4.9	3.3	0.5	-10.3	0.1	-5.5
	40.00	4.3	2.7	0.3	19.0	-1.4	8.2
	45.00	4.1	4.2	0.5	35.5	-0.3	6.3
	50.00	3.2	2.9	1.4	24.1	-5.5	23.4
	60.00	3.4	0.8	1.2	6.7	-6.5	3.0
	75.00	5.2	0.0	-10.9	0.4	-0.6	-44.8

TABLE VII-1. - CARGO CONTAINER NO. 3 STRUT INTERFERENCE YARE INCREMENTS -
YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
STRUT (W/O PITCH LINK) INTERFERENCE YARE							
8.00	0.00	0.0	1.7	-0.1	-16.0	0.0	-8.9
	4.00	0.8	2.2	-0.8	-3.4	-0.7	-11.2
	8.00	1.1	1.9	2.0	-3.7	0.6	7.6
	12.00	3.4	1.4	2.2	-29.5	-0.7	-12.7
	16.00	6.8	1.6	4.4	-15.5	-6.9	29.5
	20.00	10.8	4.1	5.9	8.6	-1.1	30.5
	25.00	13.8	4.1	3.3	11.5	0.5	39.2
	30.00	8.2	5.0	5.0	1.9	1.3	22.1
	35.00	2.3	2.7	-1.1	7.8	-0.1	12.5
	40.00	1.8	2.6	-1.5	12.6	-2.0	21.2
	45.00	2.7	3.0	0.6	18.5	-0.4	24.2
	50.00	3.9	2.9	0.7	32.5	-3.6	-2.6
	60.00	2.2	1.7	1.3	-8.2	-2.4	13.0
	75.00	0.7	2.2	-4.3	32.3	0.8	-9.2
STRUT (W/O PITCH LINK) INTERFERENCE YARE							
12.00	0.00	2.6	2.6	-1.0	2.7	1.5	5.9
	4.00	3.0	7.0	-0.1	-2.7	-1.1	3.0
	8.00	3.4	2.1	-0.3	-5.5	-1.6	-16.8
	12.00	4.5	1.5	1.4	-7.6	-2.0	7.2
	16.00	7.9	6.7	0.8	21.2	-4.3	5.3
	20.00	5.3	3.4	1.4	-9.9	4.1	5.4
	25.00	9.9	3.8	3.6	6.2	3.8	-1.2
	30.00	4.0	1.1	2.6	14.5	4.1	14.7
	35.00	1.6	3.6	1.4	15.5	0.2	23.2
	40.00	2.9	3.1	1.2	23.3	1.9	3.8
	45.00	-1.0	1.5	-0.1	7.7	-0.2	3.5
	50.00	1.6	1.9	-0.4	38.2	0.8	-7.1
	60.00	2.6	1.0	-0.0	12.6	-5.0	6.5
	75.00	1.3	2.6	-1.1	-4.1	1.8	13.6

TABLE VII-1. - CARGO CONTAINER NO. 3 STRUT INTERFERENCE TARE INCREMENTS -
YAW ANGLE SWEEPS (CONTINUE)

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	DELTA L COEF.	DELTA D COEF.	DELTA SF COEF.	DELTA PM COEF.	DELTA YM COEF.	DELTA RM COEF.
STRUT (W/O PITCH LINK) INTERFERENCE TARE							
20.00	0.00	8.0	0.4	-0.5	17.4	-0.0	-18.5
	4.00	10.5	1.3	1.1	-14.5	-2.3	17.6
	8.00	8.8	2.6	3.0	-13.5	0.3	8.5
	12.00	11.2	2.6	4.7	1.9	1.7	-13.6
	16.00	4.9	4.3	0.0	41.0	3.2	7.0
	20.00	3.1	5.8	0.3	19.6	2.6	15.4
	25.00	4.4	3.0	0.7	9.0	2.1	-27.0
	30.00	2.1	1.7	0.5	22.1	0.8	-11.7
	35.00	2.3	3.8	1.6	24.5	-0.0	5.9
	40.00	3.2	1.6	0.6	33.0	-3.2	6.7
	45.00	1.1	2.5	1.3	22.2	-2.6	30.0
	50.00	1.7	1.4	5.1	7.7	-1.3	44.3
	60.00	0.4	1.5	1.9	7.3	-4.4	5.8
	75.00	-1.1	2.0	-1.5	-3.8	1.7	3.8

TABLE VIII-1. - CARGO CONTAINER NO. 1 - DATA CORRECTED FOR STRUT INTERFERENCE

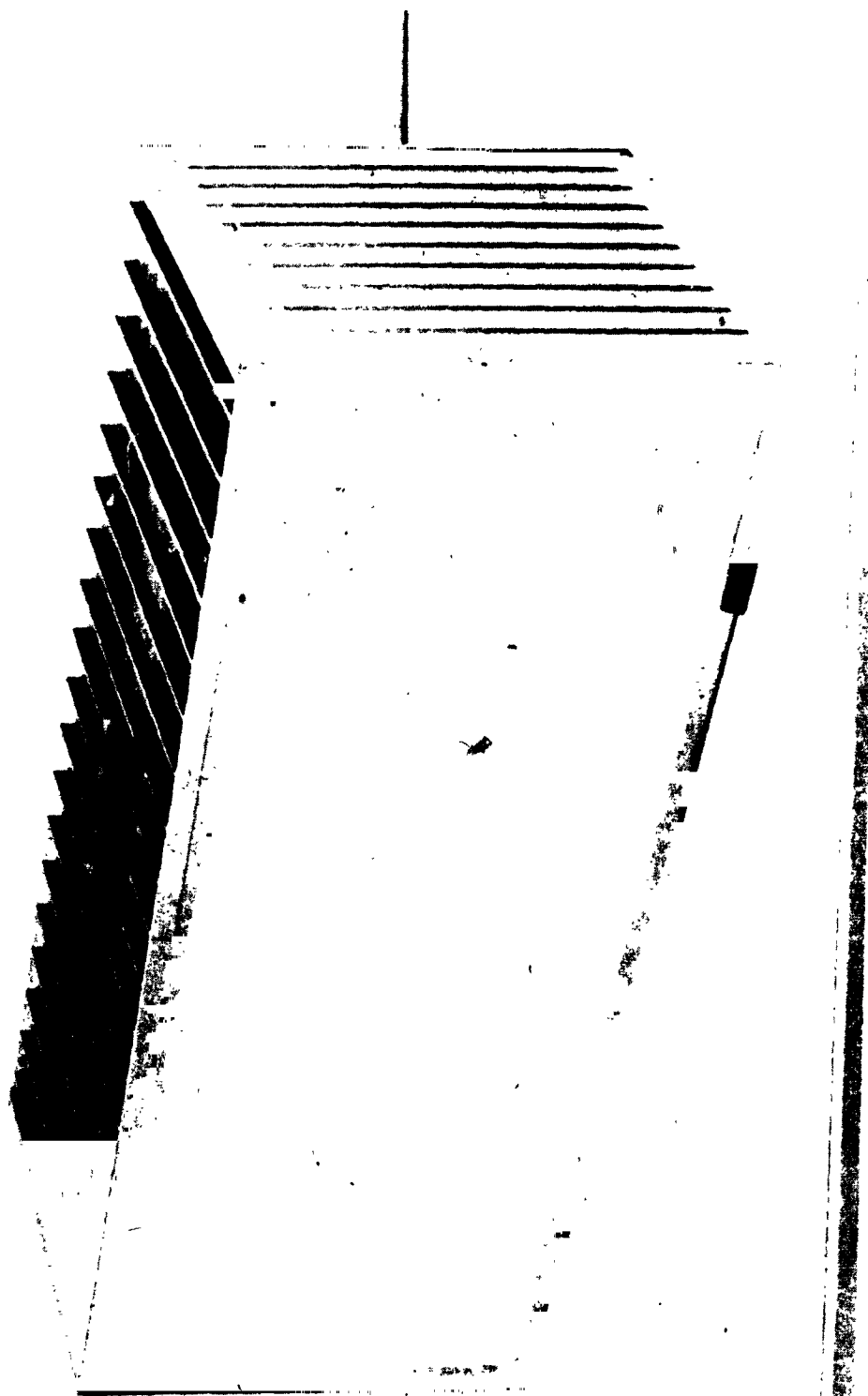
PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
0.00	0.00	5.5	56.8	-2.4	-29.8	30.4	35.6
	4.00	2.0	59.8	10.7	-24.9	-71.6	35.1
	8.00	2.2	68.9	17.8	-45.4	-131.5	27.1
	12.00	2.9	77.6	22.5	-75.2	-118.5	-15.1
	16.00	6.0	89.5	30.3	-24.8	-57.2	-6.7
	20.00	13.2	98.1	39.6	-54.0	-4.2	23.4
	25.00	13.7	113.0	59.6	-84.5	72.5	-20.7
	30.00	20.4	120.6	55.6	-105.1	114.6	-50.4
	35.00	27.8	134.9	62.2	-13.4	158.6	30.9
	40.00	34.5	143.1	69.1	-49.0	198.3	-75.9
	45.00	36.1	155.6	73.5	-61.0	246.1	-144.7
	50.00	15.2	169.1	80.9	-67.2	273.8	-173.2
8.00	60.00	10.9	194.6	89.8	-251.0	285.8	-237.9
	75.00	-1.8	208.5	74.6	-250.8	235.2	-214.6
	90.00	6.5	218.2	9.5	-134.2	48.2	-48.9
	0.00	20.2	69.5	-1.4	-146.9	16.9	15.0
	4.00	18.4	71.4	11.3	-138.4	-9.4	10.3
	8.00	20.7	81.1	23.2	-121.0	-12.2	-27.8
	12.00	25.6	86.7	27.9	-107.1	-13.6	-53.1
	16.00	38.0	95.8	31.6	-85.8	-23.4	-18.7
	20.00	42.7	103.5	41.4	-46.9	2.7	-11.5
	25.00	54.1	118.0	53.6	-48.8	70.6	22.9
	30.00	62.7	129.0	60.6	-41.0	124.0	9.5
	35.00	63.3	142.8	65.8	9.1	185.4	-51.0
16.00	40.00	56.0	149.0	69.9	3.1	216.3	-199.7
	45.00	38.4	160.9	72.4	17.0	253.4	-153.6
	50.00	25.2	178.5	80.0	-203.5	290.9	-221.1
	60.00	6.6	201.0	91.9	-210.6	279.1	-248.0
	75.00	4.3	209.4	74.2	-261.0	231.7	-241.9
	90.00	9.2	215.2	8.4	-244.8	52.7	-100.0

TABLE VIII-2. - CARGO CONTAINER NO. 2 - DATA CORRECTED FOR STRUT INTERFERENCE

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAW FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
0.00	0.00	-0.9	59.8	3.6	-50.2	37.2	-29.7
	4.00	-0.1	62.9	13.9	-26.8	16.1	-51.1
	8.00	4.9	74.2	26.1	-35.3	26.9	-233.8
	12.00	6.2	90.7	33.6	-64.4	107.7	-268.6
	16.00	11.0	105.2	53.0	-31.2	240.9	41.0
	20.00	13.3	125.7	80.9	-214.2	389.7	-71.9
	25.00	31.5	149.3	110.1	-280.5	532.1	-159.2
	30.00	41.0	176.2	151.2	-300.7	642.8	146.2
	35.00	77.8	219.8	172.4	-331.8	740.1	-156.8
	40.00	43.2	247.1	186.6	-212.2	876.5	-153.6
	45.00	17.6	281.9	190.2	-80.4	1048.9	-493.1
	50.00	8.4	269.8	176.9	-397.4	988.0	-689.4
	60.00	29.7	378.9	215.6	-1029.3	1308.6	-638.1
	75.00	-0.9	451.3	159.2	-695.3	846.6	-353.1
8.00	0.00	20.6	73.8	0.1	-62.0	28.2	-60.7
	4.00	20.5	78.3	18.1	-29.1	69.3	-72.6
	8.00	33.8	89.5	40.6	-11.5	143.1	-209.0
	12.00	54.9	104.8	50.3	39.1	214.9	-376.1
	16.00	79.9	122.1	70.9	136.1	330.7	36.2
	20.00	111.2	143.7	88.3	35.9	448.5	55.6
	25.00	136.4	168.7	106.3	240.1	607.2	107.5
	30.00	160.5	194.9	127.8	166.6	694.5	-164.1
	35.00	138.6	229.5	160.8	558.2	826.9	-385.7
	40.00	96.6	256.0	178.3	520.4	925.4	-653.9
	45.00	71.6	293.4	198.5	286.6	1053.6	-630.4
	50.00	58.9	324.6	203.4	-11.2	1191.9	-660.4
	60.00	35.2	386.6	217.1	-523.4	1342.2	-902.8
	75.00	6.1	456.6	170.6	-736.2	896.5	-506.6

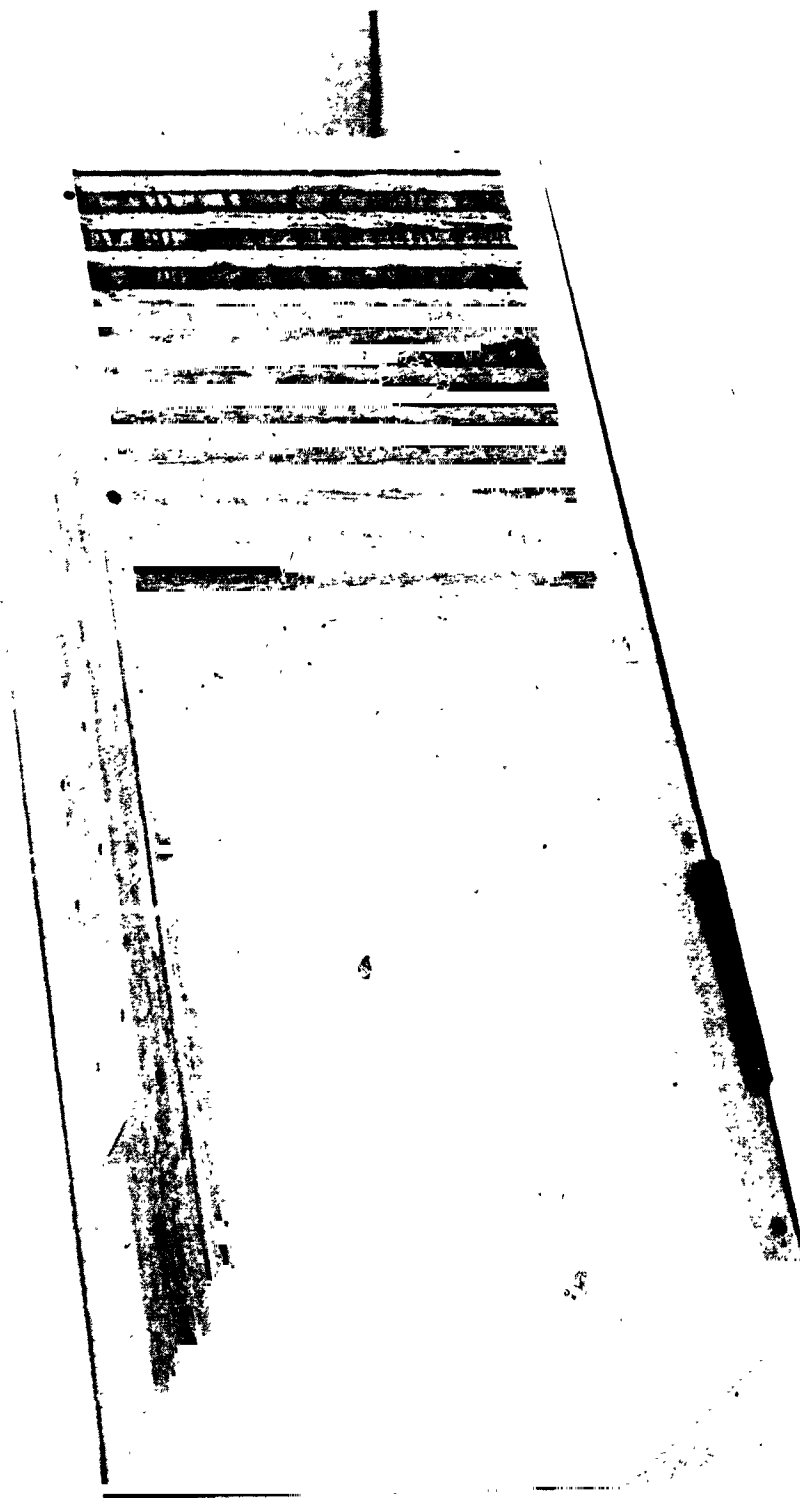
TABLE VIII-3. - CARGO CONTAINER NO. 3 - DATA CORRECTED FOR STRUT INTERFERENCE

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
0.00	0.00	-1.5	79.0	2.3	-69.0	13.7	21.4
	8.00	2.7	78.5	-14.7	-76.5	-6.6	-25.7
	12.00	3.2	78.5	-22.6	-60.7	-30.0	22.5
	16.00	7.0	79.3	-24.7	-49.8	-44.2	20.1
	20.00	1.3	80.7	-22.2	-55.8	-45.6	-10.9
	25.00	-1.2	83.0	-19.6	-84.2	-36.2	44.0
	30.00	2.2	83.6	-16.3	-66.9	-22.1	8.2
	35.00	10.9	79.6	0.1	-51.1	-7.1	1.5
	40.00	9.4	85.6	1.4	-66.6	2.9	19.6
	45.00	8.0	83.8	2.7	-62.6	14.2	9.7
8.00	50.00	6.1	84.0	3.1	-60.4	27.6	-3.8
	60.00	2.1	80.3	9.0	-72.7	48.0	-32.7
	75.00	-7.3	72.3	24.2	-10.6	72.0	0.5
	0.00	-12.3	76.6	1.2	-101.2	9.1	19.1
	4.00	-12.3	76.3	-7.2	-94.4	-6.5	-39.9
	8.00	-11.8	76.2	-16.8	-98.2	-22.6	-12.9
	12.00	-9.9	76.8	-16.4	-62.7	-40.2	15.7
	16.00	-6.5	80.1	-15.9	-82.9	-43.4	-30.8
	20.00	-3.2	80.9	-15.9	-91.1	-48.8	-6.2
	25.00	-0.5	84.1	-12.0	-86.0	-35.6	-4.4
30.00	30.00	7.1	86.1	-11.8	-71.5	-22.3	12.0
	35.00	10.8	87.7	-5.0	-72.1	-11.1	14.6
	40.00	14.4	87.6	0.8	-44.9	-1.3	-4.3
	45.00	12.6	87.2	0.2	-48.3	4.7	-19.9
	50.00	5.8	87.7	1.5	-85.3	18.0	8.6
	60.00	0.8	83.5	10.0	-59.6	43.3	-31.0
	75.00	-0.7	72.2	21.5	-125.8	67.0	0.4



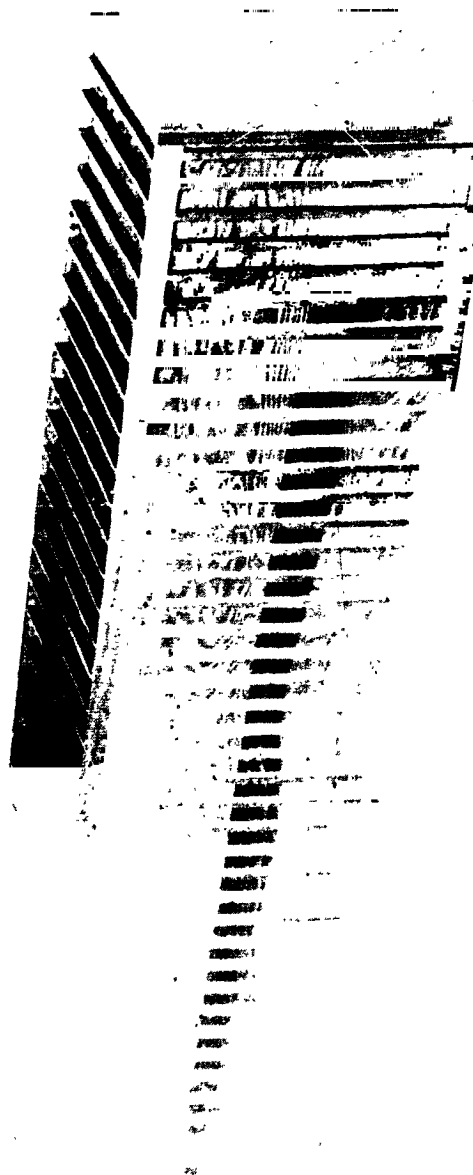
(A) BOTTOM, FRONT, SIDE VIEW.

FIGURE 1. - 1/6.62 SCALE MODEL OF CARGO CONTAINER NO. 1.



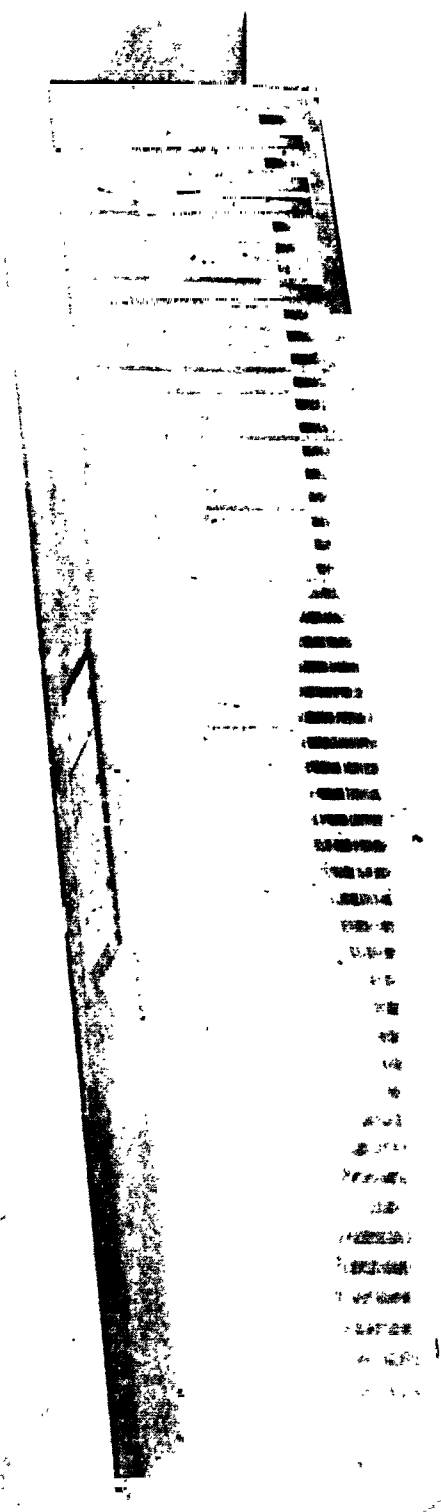
(B) TOP, REAR, SIDE VIEW.

FIGURE 1. - CONCLUDED.



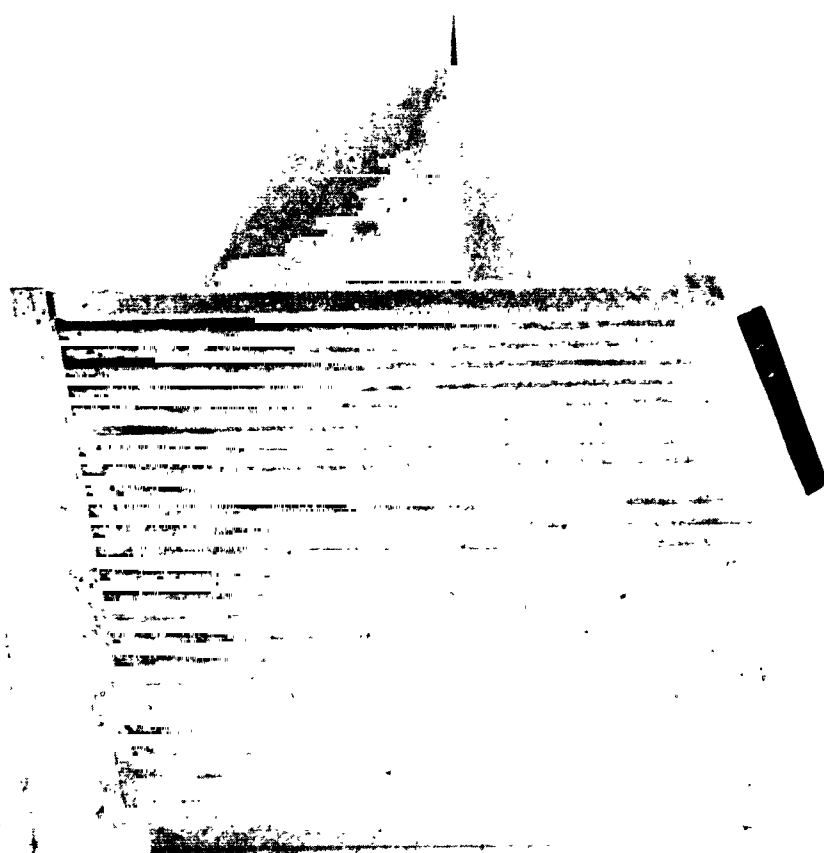
(A) BOTTOM, FRONT, SIDE VIEW.

FIGURE 2. - 1/9.60 SCALE MODEL OF CARGO CONTAINER NO. 2.



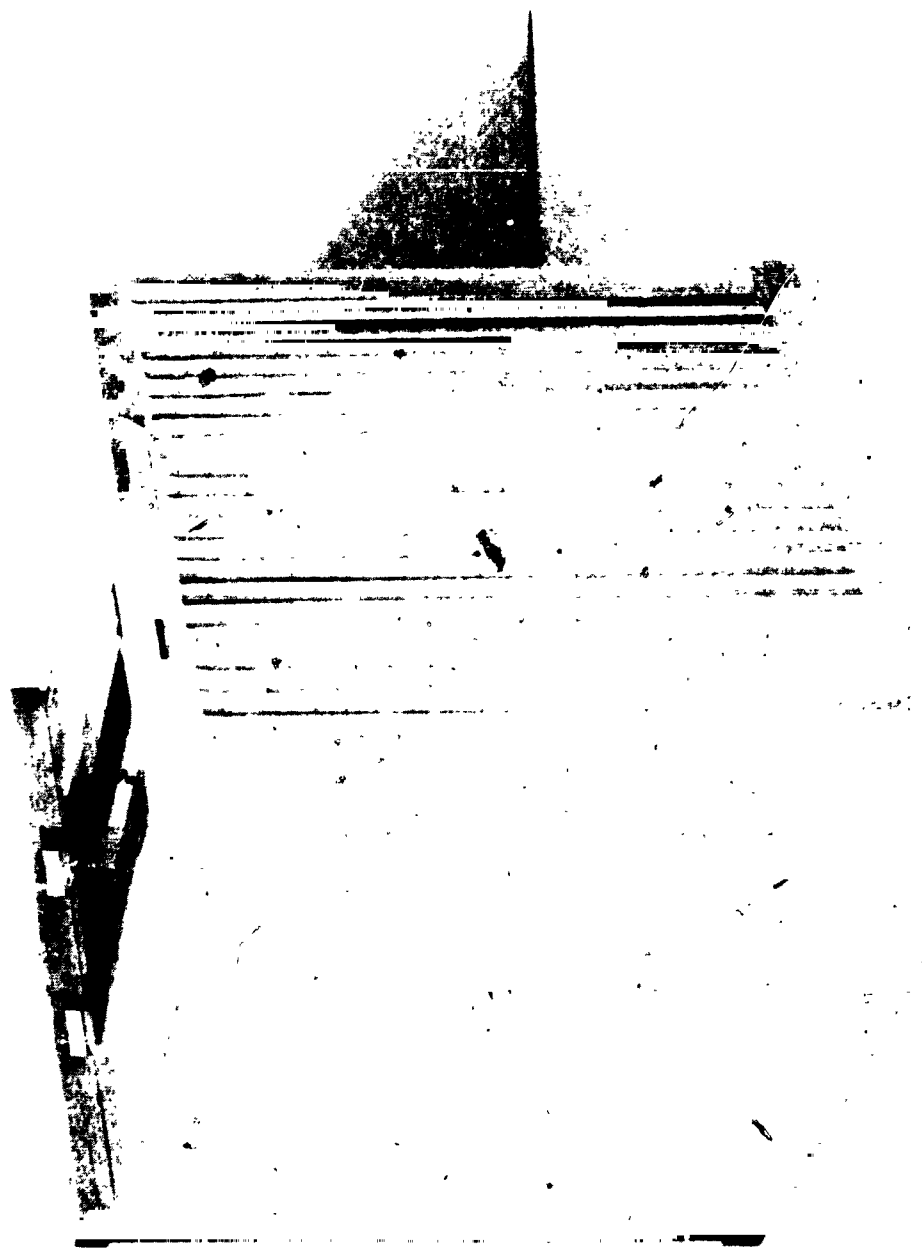
(B) TOP, REAR, SIDE VIEW.

FIGURE 2. - CONCLUDED.



(A) BOTTOM, FRONT, SIDE VIEW.

FIGURE 3. - 1/5.00 SCALE MODEL OF CARGO CONTAINER NO. 1.



(B) TOP, REAR, SIDE VIEW.

FIGURE 3. - CONCLUDED.



FIGURE 4. - CARGO CONTAINER NO. 1 MODEL MOUNTED IN TUNNEL.
PITCH ANGLE = 30, YAW ANGLE = 20.



FIGURE 5. - CARGO CONTAINER NO. 2 MODEL MOUNTED IN TUNNEL.
PITCH ANGLE = 20, YAW ANGLE = 20.



FIGURE 6. - CARGO CONTAINER NO. 3 MODEL MOUNTED IN TUNNEL.
PITCH ANGLE = 20, YAW ANGLE = 30.

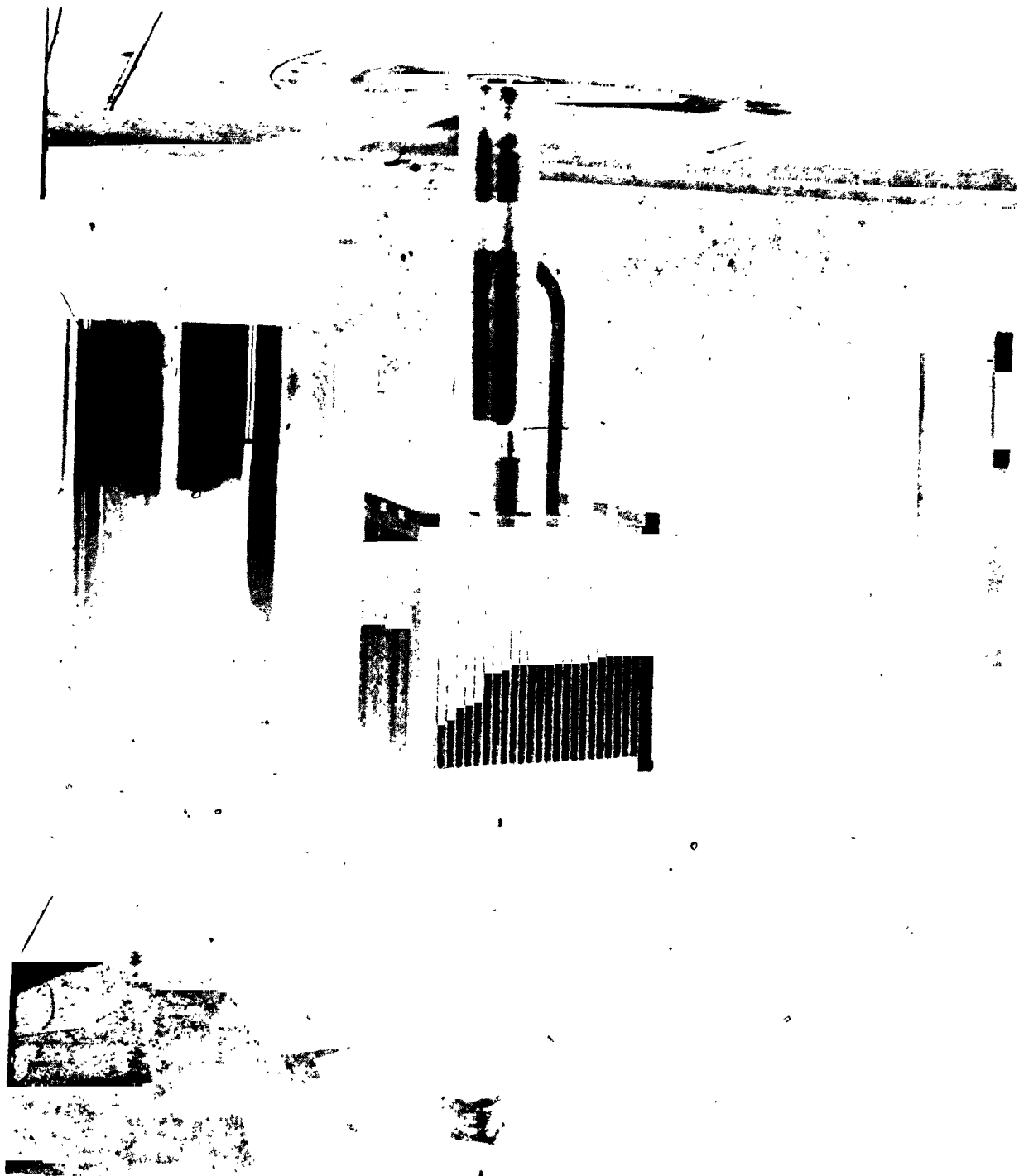
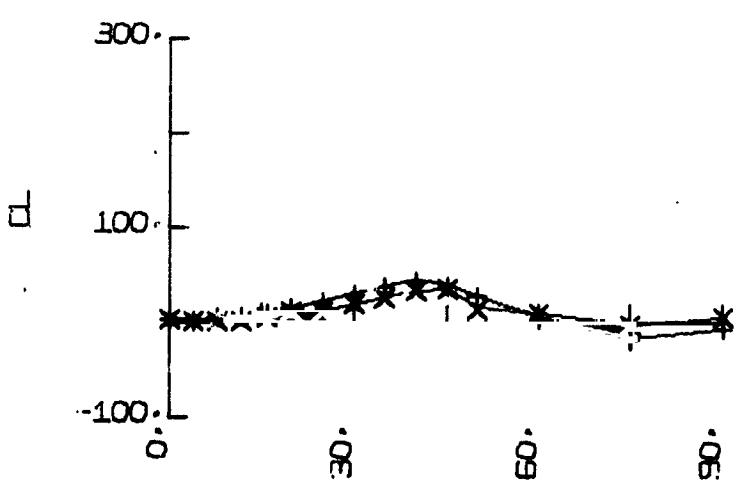
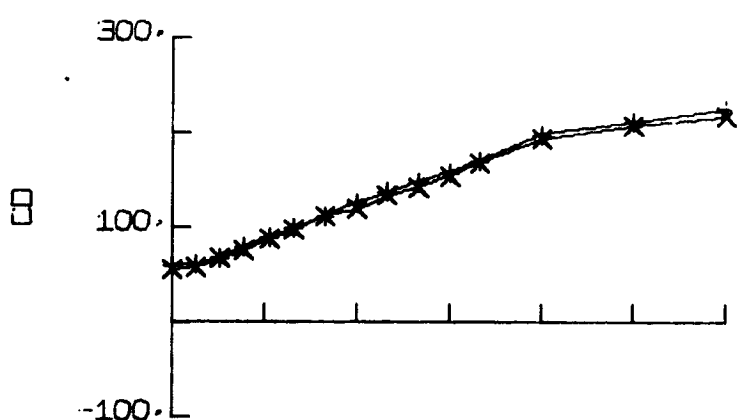
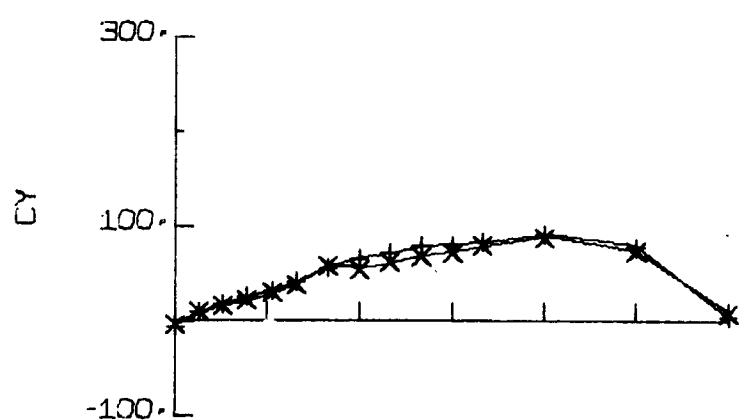


FIGURE 7. - CARGO CONTAINER NO. 3 MODEL MOUNTED IN TUNNEL FOR MODEL/STRUT INTERFERENCE TESTS. PITCH ANGLE=0, YAW ANGLE=0.

CARGO CONTAINER NO. 1
PITCH ANGLE = 0.00

+ UNCORRECTED DATA
X CORRECTED DATA



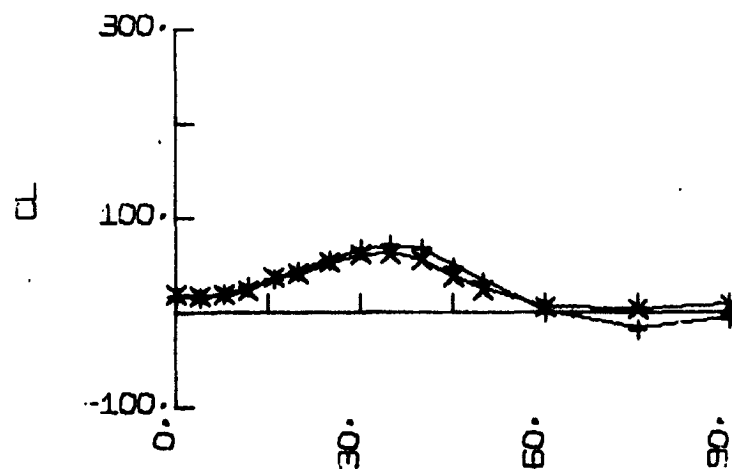
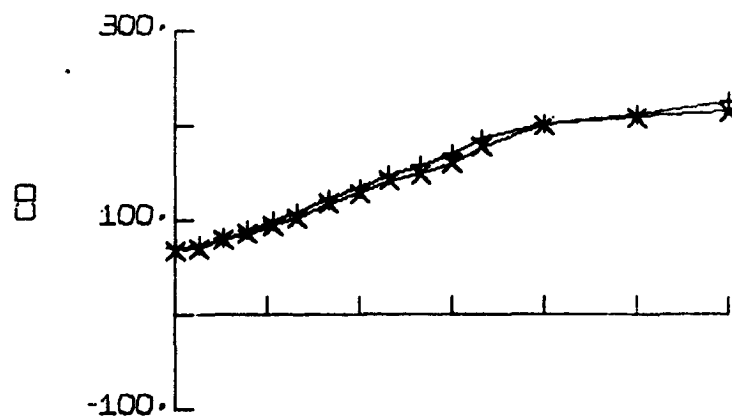
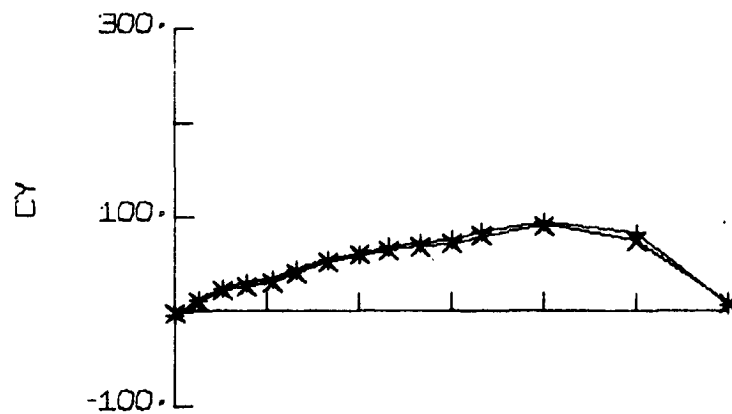
YAW ANGLE

(A) FORCE COEFFICIENTS, PITCH ANGLE=0.

FIGURE 8. - CARGO CONTAINER NO. 1 AERODYNAMIC CHARACTERISTICS.
PITCH ANGLE = 0 AND 8 DEGREES

CARGO CONTAINER NO. 1
PITCH ANGLE = 8.00

+ UNCORRECTED DATA
X CORRECTED DATA

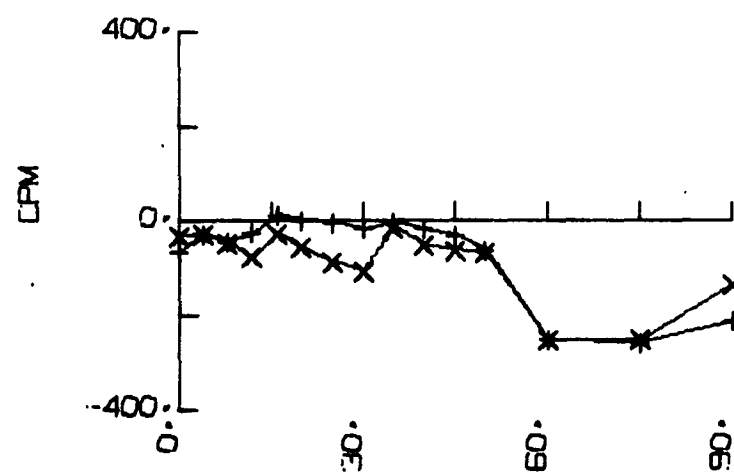
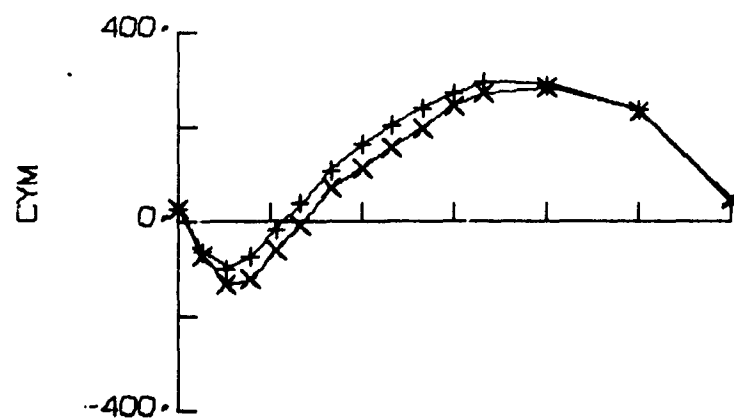
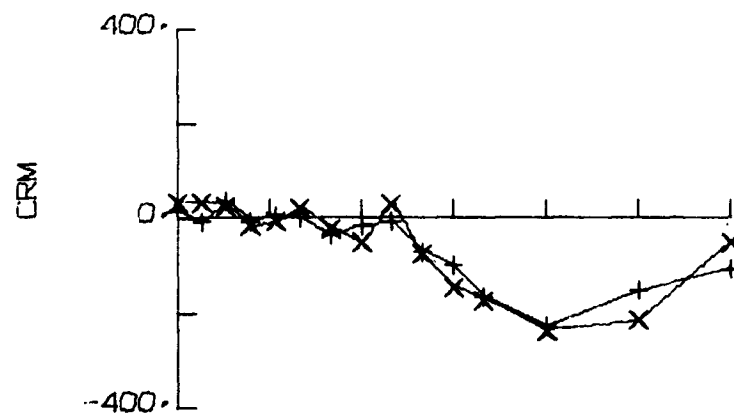


YAW ANGLE

(B) FORCE COEFFICIENTS, PITCH ANGLE=8.0

CARGO CONTAINER NO. 1
PITCH ANGLE = 0.00

+ UNCORRECTED DATA
X CORRECTED DATA



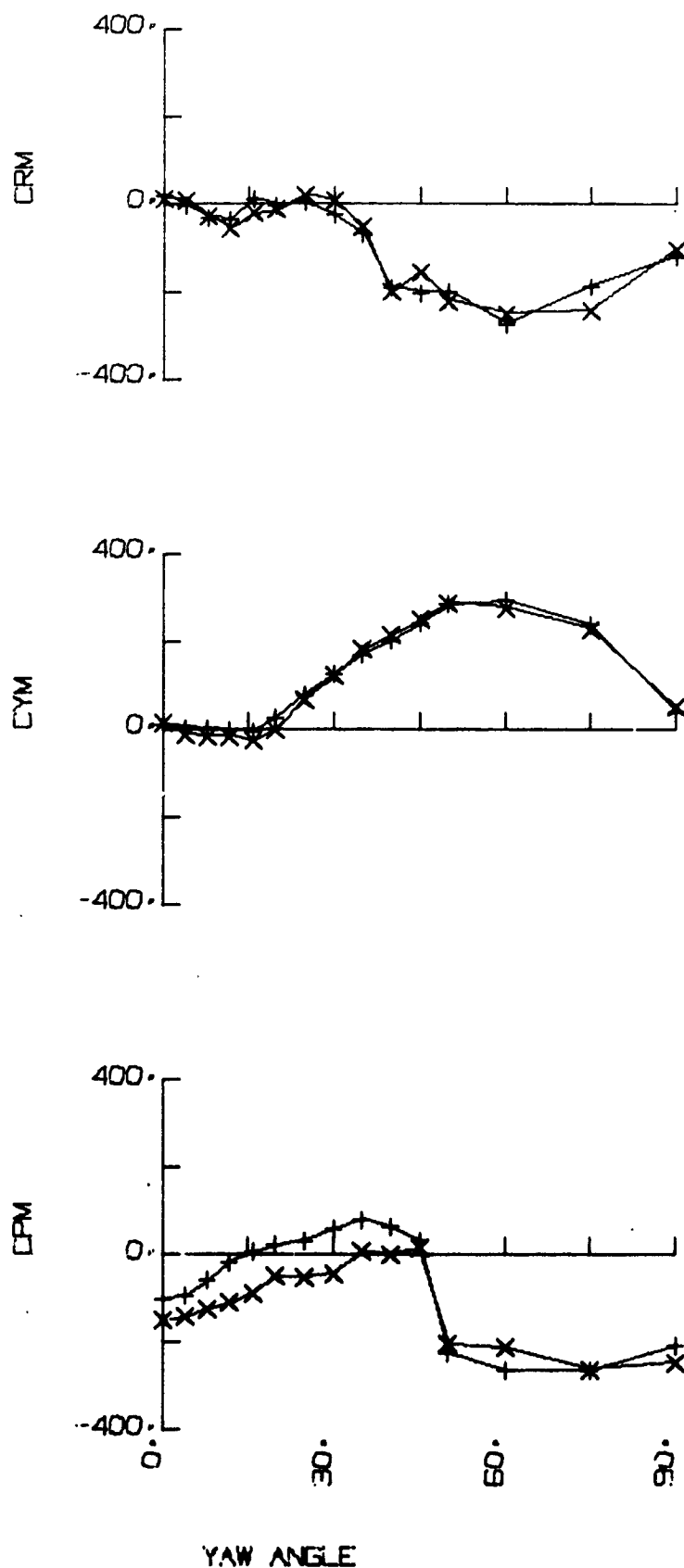
YAW ANGLE

(C) MOMENT COEFFICIENTS, PITCH ANGLE=0.

FIGURE 2 - CONTINUED

CARGO CONTAINER NO. 1
PITCH ANGLE = 8.00

+ UNCORRECTED DATA
X CORRECTED DATA

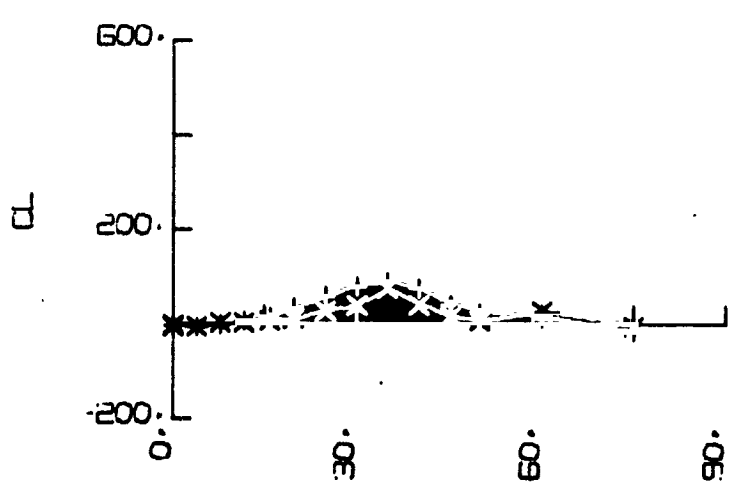
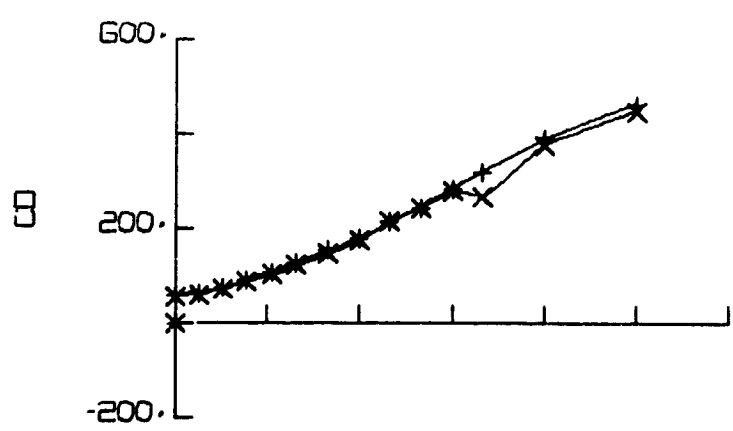
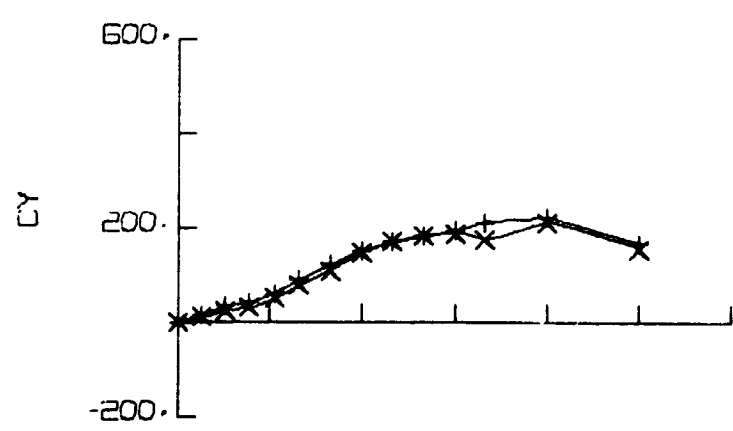


(D) MOMENT COEFFICIENTS, PITCH ANGLE=8.

FIGURE 8. - CONCLUDED.

CARGO CONTAINER NO. 2
PITCH ANGLE = 0.00

+ UNCORRECTED DATA
x CORRECTED DATA



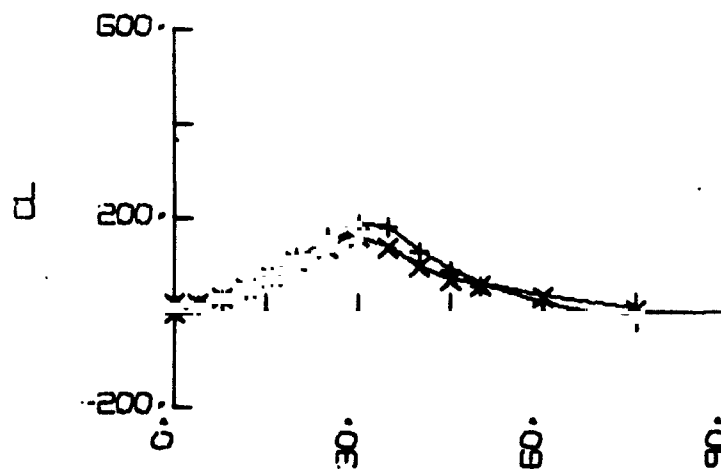
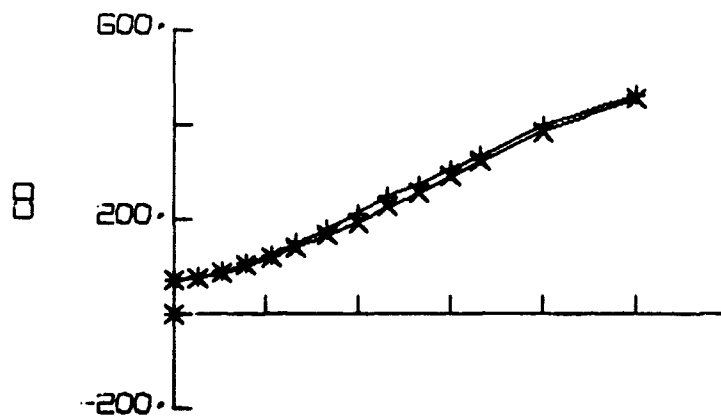
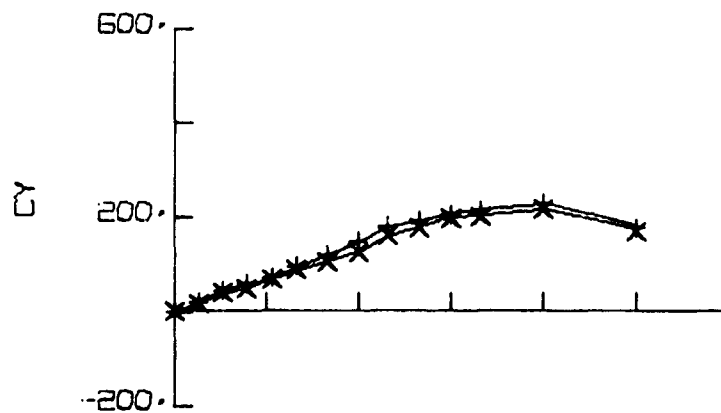
YAW ANGLE

(A) FORCE COEFFICIENTS, PITCH ANGLE=0.

FIGURE 2. - CARGO CONTAINER NO. 2 AERODYNAMIC CHARACTERISTICS.
PITCH ANGLE= 0 AND 4 DEGREES.

CARGO CONTAINER NO. 2
PITCH ANGLE = 8.00

+ UNCORRECTED DATA
X CORRECTED DATA



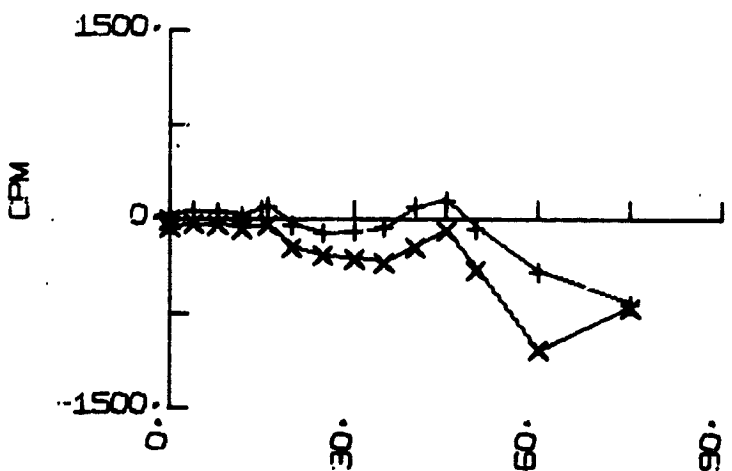
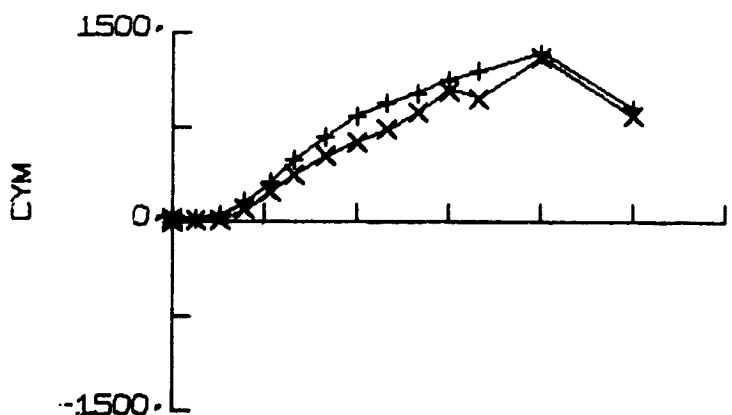
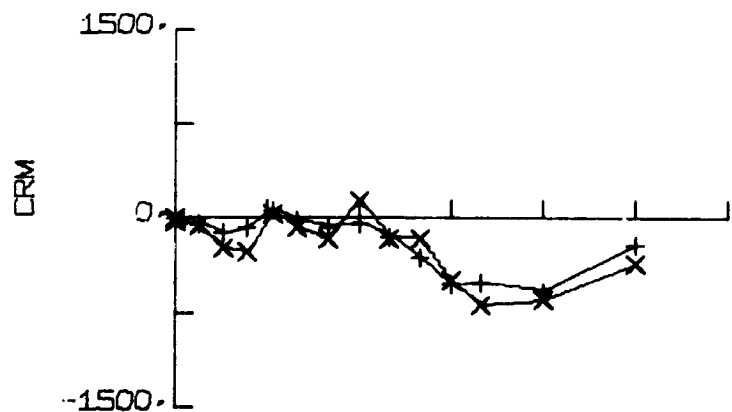
YAW ANGLE

(R) FORCE COEFFICIENTS, PITCH ANGLE=8.00

FIGURE 9. - CONTINUED.

CARGO CONTAINER NO. 2
PITCH ANGLE = 0.00

+ UNCORRECTED DATA
X CORRECTED DATA



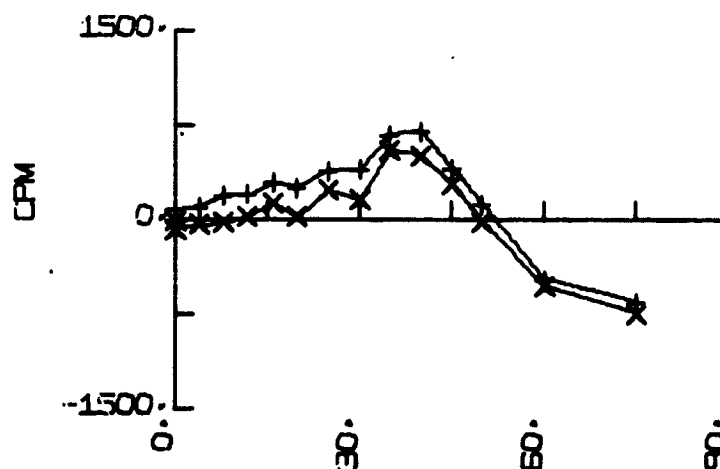
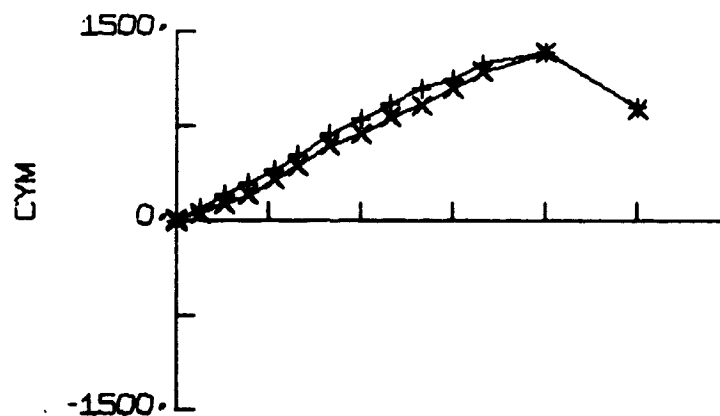
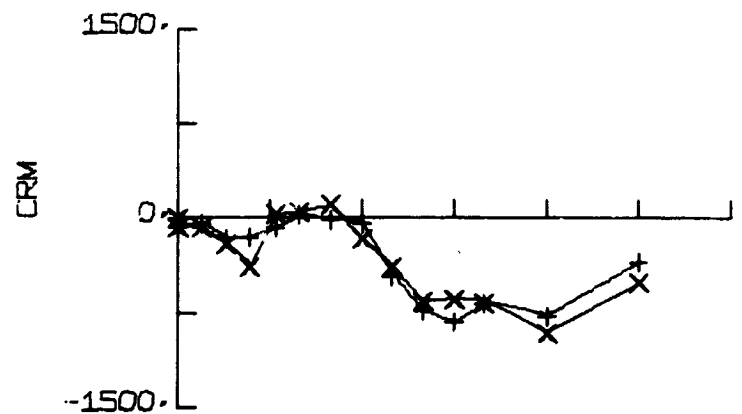
YAW ANGLE

(C) MOMENT COEFFICIENTS, PITCH ANGLE=0.

FIGURE 9. - CONTINUED.

CARGO CONTAINER NO. 2
PITCH ANGLE = 8.00

+ UNCORRECTED DATA
x CORRECTED DATA

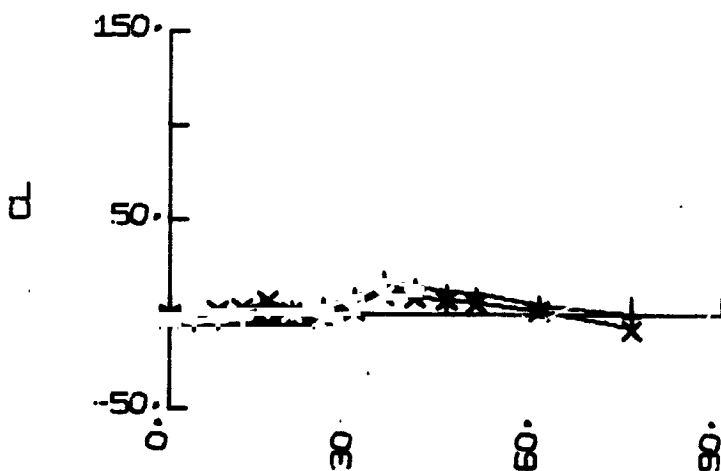
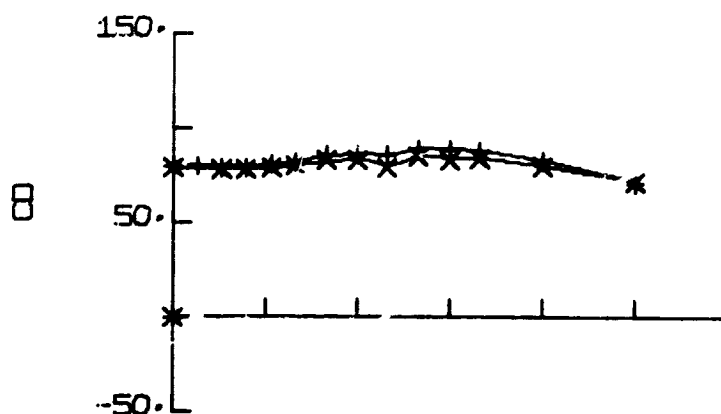
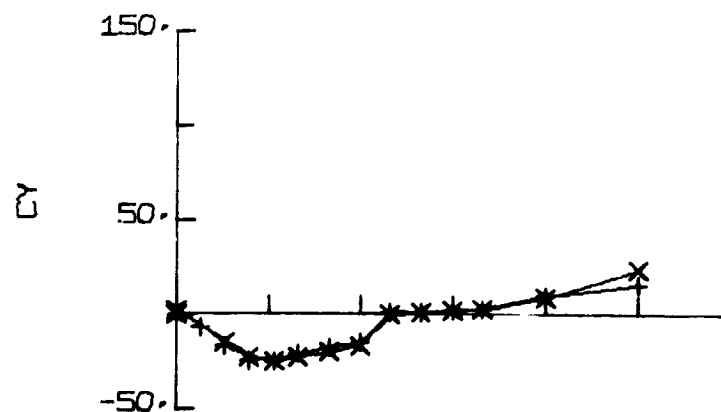


YAW ANGLE

(D) MOMENT COEFFICIENTS, PITCH ANGLE=8.

CARGO CONTAINER NO. 3
PITCH ANGLE = 0.00

+ UNCORRECTED DATA
X CORRECTED DATA



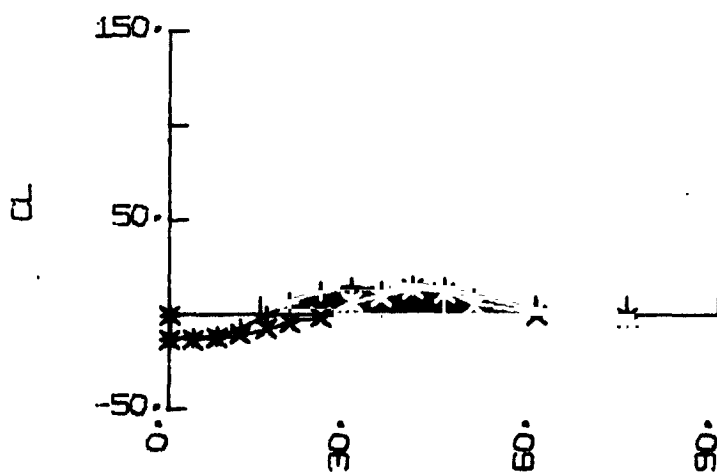
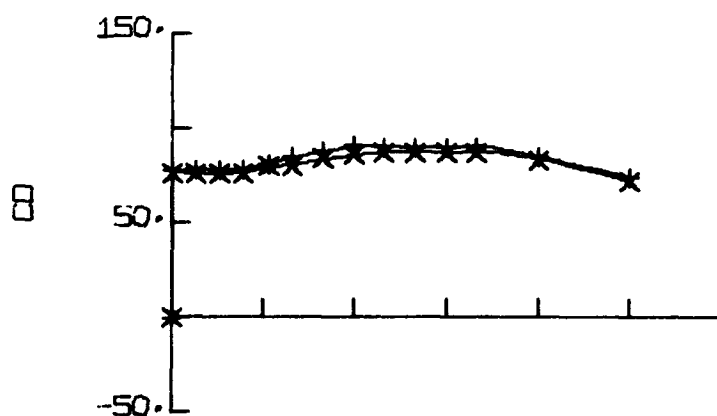
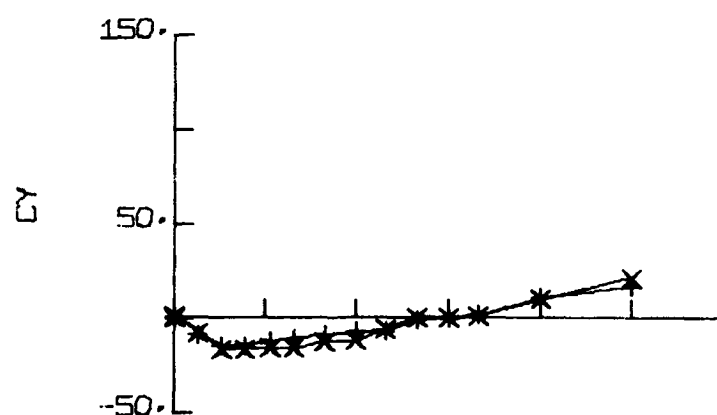
YAW ANGLE

(A) FORCE COEFFICIENTS, PITCH ANGLE=0.

FIGURE 10.- CARGO CONTAINER NO. 3 AERODYNAMIC CHARACTERISTICS.
PITCH ANGLE = 0 AND 1 DEGREES

CARGO CONTAINER NO. 3
 PITCH ANGLE = 8.00

+ UNCORRECTED DATA
 X CORRECTED DATA



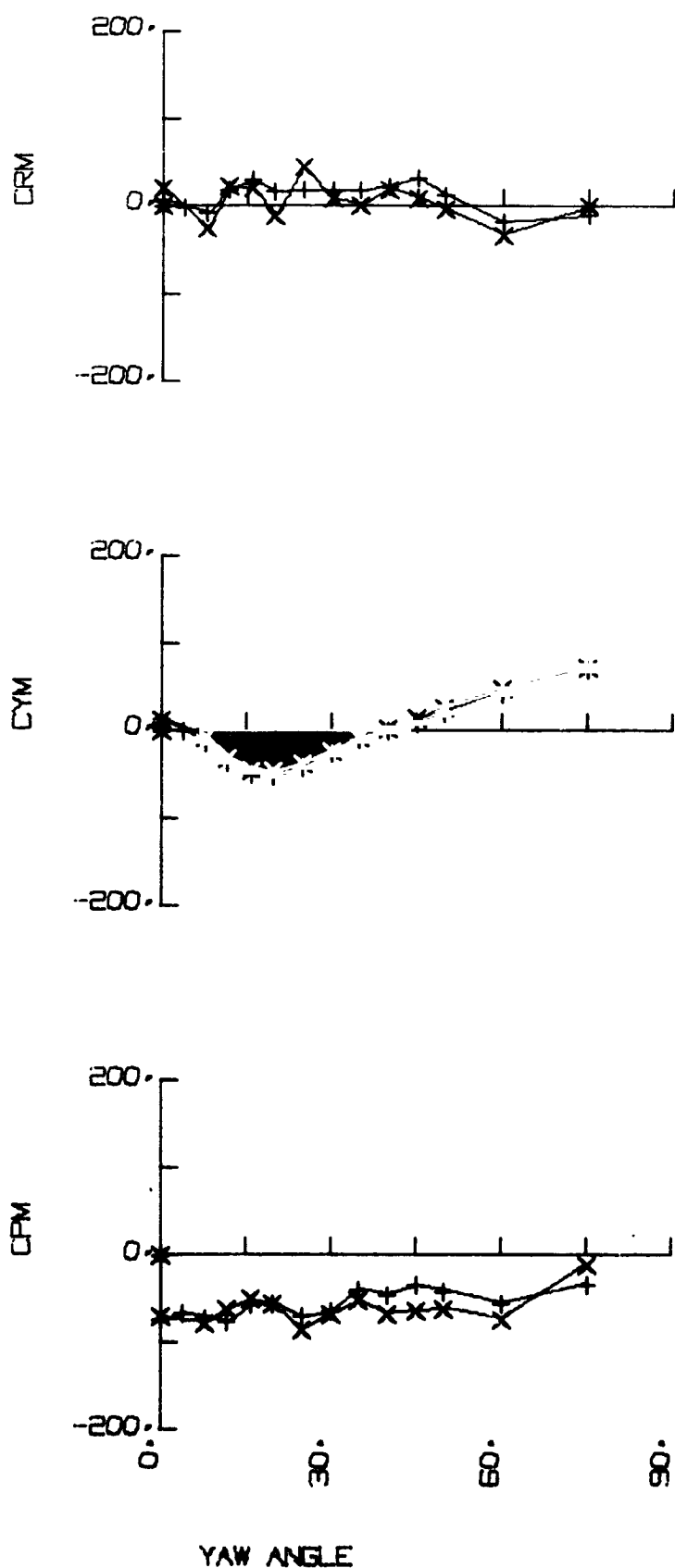
YAW ANGLE

(R) FORCE COEFFICIENTS, PITCH ANGLE=8.

FIGURE 10. - CONTINUED.

CARGO CONTAINER NO. 3
PITCH ANGLE = 0.00

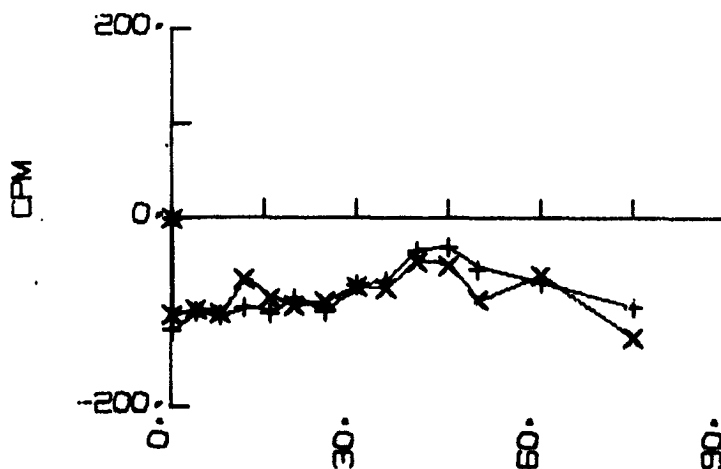
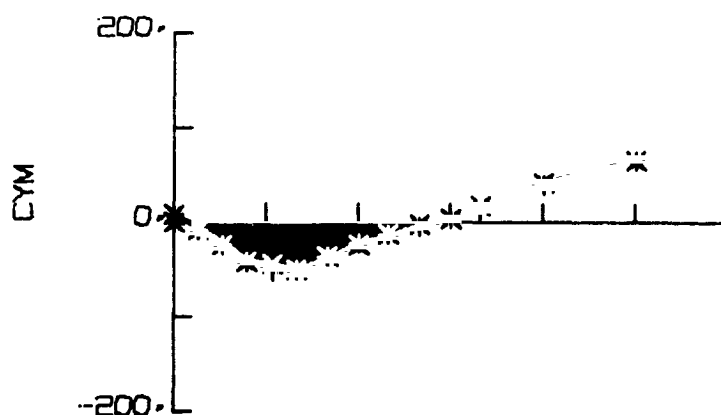
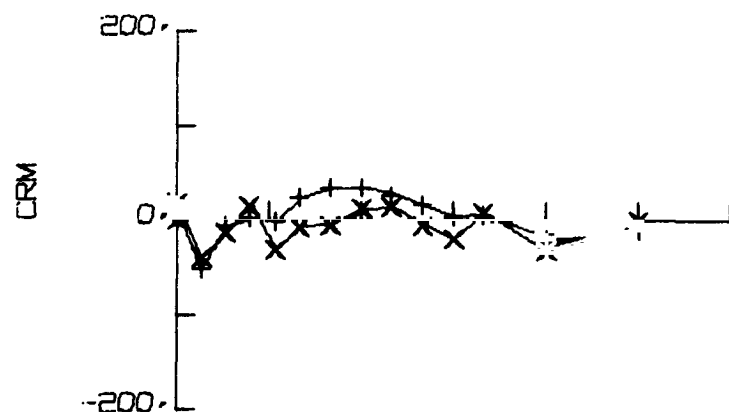
+ UNCORRECTED DATA
X CORRECTED DATA



(C) MOMENT COEFFICIENTS, PITCH ANGLE=0.

CARGO CONTAINER NO. 3
PITCH ANGLE = 8.00

+ UNCORRECTED DATA
X CORRECTED DATA



YAW ANGLE

(D) MOMENT COEFFICIENTS, PITCH ANGLE=8.

FIGURE 10. - CONCLUDED.

APPENDIX

Smooth-Sided Box Aerodynamic Data

Preparatory to the wind tunnel investigation on the cargo container models, preliminary check-out type wind tunnel tests were made on three smooth-sided boxes. These boxes, designated box Nos. 1, 2, and 3, were of the same overall dimensions and mounting details as cargo container model Nos. 1, 2, and 3, respectively. The data from these tests, similarly scaled to represent the full scale loads and corrected for support strut aerodynamic loads are presented in Tables A1, A2, and A3, as aerodynamic coefficients based on unit dimensions. Comparison of this data with that in Tables II, III, and IV would provide insight into the effect of the outer surface construction details of the cargo containers.

TABLE A1-1. - BOX NO. 1 - YAW ANGLE SWEEPS

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
0.00	0.00	2.6	57.4	-0.4	-54.4	29.9	-11.0
	8.00	0.7	66.2	22.9	-22.7	-94.2	-9.0
	16.00	6.3	81.1	41.5	-0.1	3.0	-62.2
	30.00	23.9	119.7	76.6	24.7	201.6	-110.6
	45.00	35.0	155.0	81.2	-16.6	245.4	-33.7
	60.00	1.8	198.6	90.2	-293.2	270.2	-92.8
	75.00	-15.4	210.4	69.9	-276.3	224.6	10.0
	90.00	-10.6	224.6	-5.2	-234.1	31.9	-3.9

TABLE A1-2. - BOX NO. 1 - PITCH ANGLE SWEEPS

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT		DRAG		SIDE FORCE		PITCHING MOMENT		YAWING MOMENT		ROLLING MOMENT	
		FORCE COEF.	COEF.	FORCE COEF.	COEF.	FORCE COEF.	COEF.	COEF.	COEF.	COEF.	COEF.	COEF.	COEF.
0.00	-4.00	-11.4		63.0		1.1		-12.3		20.6		-24.1	
	0.00	0.7		60.3		1.1		-73.7		23.2		-41.9	
	4.00	8.3		63.9		-0.5		-114.0		17.5		-13.5	
	8.00	14.8		68.4		-0.6		-108.6		13.8		-20.8	
	12.00	22.7		77.3		-0.5		-76.6		8.1		-23.2	
	16.00	28.3		81.8		-2.0		12.4		5.5		34.6	
	20.00	37.1		88.5		-6.0		36.8		6.5		43.7	
8.00	25.00	43.5		99.1		-5.4		98.5		2.4		38.1	
	44.00	64.7		141.0		-1.2		187.1		-2.6		-7.6	
	-4.00	-8.8		70.1		23.7		36.2		-59.5		17.4	
	0.00	0.3		69.0		22.2		-3.4		-87.9		26.2	
	4.00	12.1		71.4		22.1		-46.1		-84.1		-18.0	
	8.00	16.9		78.9		26.8		-46.8		-8.6		4.3	
	12.00	25.4		85.2		31.9		-63.4		46.9		-0.5	
-187-	16.00	32.9		91.6		37.7		-31.2		64.4		-21.6	
	20.00	40.4		98.6		43.6		27.0		66.4		-21.4	
	25.00	45.1		110.8		51.1		79.0		98.1		-19.3	
	44.00	62.8		147.1		13.6		182.4		105.3		138.2	

TABLE A1-2. - BOX NO. 1 - PITCH ANGLE SWEEPS (CONTINUE)

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT		DRAG		SIDE FORCE		PITCHING MOMENT		YAWING MOMENT		ROLLING MOMENT	
		FORCE COEF.	COEF.	FORCE COEF.	COEF.	FORCE COEF.	COEF.	COEF.	COEF.	COEF.	COEF.	COEF.	COEF.
16.00	-4.00	-11.5		85.9		42.7		-27.4		5.4		-26.5	
	0.00	4.6		84.6		41.0		13.9		-2.9		5.6	
	4.00	24.2		87.4		42.1		22.3		7.3		-14.9	
	8.00	34.0		93.1		44.3		29.4		43.1		-8.1	
	12.00	41.5		102.6		51.1		7.9		77.8		-28.1	
	16.00	48.5		110.5		58.9		17.9		88.9		-21.7	
	20.00	56.8		120.5		65.3		28.6		105.9		-33.5	
30.00	25.00	63.4		131.6		69.7		124.6		105.1		-57.3	
	44.00	66.6		161.3		21.9		176.8		-3.5		-17.3	
	-4.00	-3.5		121.7		76.6		-97.0		214.7		-85.4	
	0.00	21.2		121.6		75.7		-26.9		204.5		-123.7	
	4.00	44.6		126.5		75.8		57.7		184.4		-82.5	
	8.00	67.7		134.0		76.3		121.3		168.3		-87.5	
	12.00	79.1		144.4		79.0		108.8		179.8		-70.9	
	16.00	68.8		149.4		77.0		9.7		189.2		-115.3	
	20.00	71.3		153.2		69.9		-47.3		184.7		-144.3	
	25.00	63.9		158.4		65.9		-2.6		171.6		-127.5	
	44.00	65.3		189.3		53.1		53.7		108.6		-137.0	

TABLE AII-1. - BOX NO. 2 - YAW ANGLE SWEEPS

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
0.00	0.00	-4.3	60.1	-6.8	70.5	9.2	123.7
	8.00	-4.4	71.1	28.4	81.9	54.9	117.0
	16.00	7.5	95.0	79.1	63.8	352.0	-52.6
	30.00	64.2	166.4	161.9	-285.7	934.9	-112.8
	45.00	56.0	282.2	214.5	-33.6	1109.9	-361.5
	60.00	22.1	395.7	216.3	-486.4	1262.4	-351.8
	75.00	-8.4	465.3	158.1	-763.6	869.1	-123.8
	90.00	-28.1	484.8	-2.1	-554.7	58.1	-24.7

TABLE AII-2. - BOX NO. 2 - PITCH ANGLE SWEEPS

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT		DRAG		SIDE FORCE COEF.		PITCHING MOMENT COEF.		YAWING MOMENT COEF.		ROLLING MOMENT COEF.	
		FORCE COEF.		FORCE COEF.		FORCE COEF.		COEF.		COEF.		COEF.	
0.00	-4.00	-11.5		59.4		-7.1		59.0		9.8		126.7	
	0.00	-5.1		60.7		-5.3		61.3		9.6		95.5	
	4.00	3.0		64.9		-5.5		82.3		-0.9		152.7	
	8.00	14.4		69.1		-6.7		163.5		-4.0		92.2	
	12.00	28.0		75.9		-9.9		299.2		-8.6		71.1	
	16.00	44.6		84.1		-16.1		449.2		-4.2		88.9	
	20.00	59.2		94.4		-17.0		684.1		5.1		138.2	
16.00	25.00	80.5		109.7		-24.5		883.0		29.0		105.8	
	44.00	159.1		226.9		13.6		1073.6		-71.5		-74.8	
	-4.00	-28.2		96.5		83.7		-177.1		337.5		-77.1	
	0.00	6.3		94.1		78.0		49.5		344.9		-33.5	
	4.00	35.4		100.0		78.0		173.2		384.9		-119.6	
	8.00	66.1		107.1		84.5		360.2		433.6		-181.9	
	12.00	90.1		122.0		101.5		412.2		541.8		-32.4	
30.00	16.00	110.8		138.0		126.2		631.9		587.7		-168.7	
	20.00	122.9		163.2		154.3		873.7		608.5		-120.3	
	25.00	141.2		202.0		192.0		1056.5		658.2		-257.4	
	44.00	173.6		292.0		148.1		1255.5		570.9		209.1	
	-4.00	-0.2		165.6		170.8		-454.2		998.2		-319.1	
	0.00	64.5		166.5		163.1		-340.4		953.3		-206.3	
	4.00	140.5		182.2		166.1		-87.5		848.2		-250.8	
44.00	8.00	210.1		204.7		164.5		216.0		793.1		-184.6	
	12.00	234.8		228.1		158.7		467.4		881.1		-308.1	
	16.00	250.1		252.6		157.3		745.1		1058.5		-224.2	
	20.00	260.5		277.9		163.0		946.4		1272.3		-393.5	
	25.00	266.8		321.5		184.9		1206.2		1463.8		-413.4	
	44.00	205.9		427.3		223.2		1807.2		1045.9		-557.8	

TABLE AIII-1. - BOX NO. 3 - YAW ANGLE SWEEPS

PITCH ANGLE (DEG.)	YAW ANGLE (DEG.)	LIFT FORCE COEF.	DRAG FORCE COEF.	SIDE FORCE COEF.	PITCHING MOMENT COEF.	YAWING MOMENT COEF.	ROLLING MOMENT COEF.
0.00	0.00	-2.0	81.4	1.0	-53.3	9.3	20.0
	8.00	-1.0	80.5	-18.6	-68.1	-18.8	-0.7
	16.00	1.4	81.6	-21.1	-76.1	-49.2	12.9
	30.00	12.3	90.8	-8.4	-77.4	-19.1	-25.7
	45.00	10.4	91.4	-3.0	-56.5	10.9	-32.3
	90.00	-2.3	76.9	-4.0	-31.9	4.2	19.6

TABLE A111-2. - BOX NO. 3 - PITCH ANGLE SWEEPS

YAW ANGLE (DEG.)	PITCH ANGLE (DEG.)	LIFT		DRAG		SIDE FORCE		PITCHING MOMENT		YAWING MOMENT		ROLLING MOMENT	
		FORCE COEF.	COEF.	FORCE COEF.	COEF.	FORCE COEF.	COEF.	COEF.	COEF.	COEF.	COEF.	COEF.	COEF.
0.00	-4.00	5.4		82.5		1.1		-69.6		9.7		15.9	
	0.00	-1.2		82.0		0.7		-67.3		9.2		20.0	
	4.00	-9.9		80.8		1.4		-77.4		10.2		15.0	
	8.00	-15.2		79.6		0.5		-96.5		8.5		22.7	
	12.00	-14.7		79.5		1.8		-89.7		10.9		2.8	
	16.00	-15.2		82.3		0.4		-96.6		10.6		18.2	
20.00		-11.2		84.1		1.2		-90.3		11.7		45.6	